

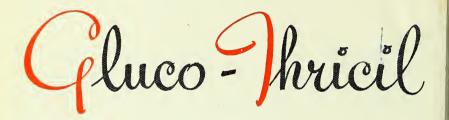
# CHEMIST AND DRUGGIST

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JANUARY 7, 1950



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# CHEMIST AND DRUGGIST

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#### NEWS OF THE WEEK

Record Number of Blood Donors.—Gifts of blood to the National Blood Transfusion Service for hospitals in England and Wales during the September, 1949, quarter were the highest since the war. They totalled 116,021, against 95,301 in the comparable quarter last year.

Doctors Urge Anti-T.B. Action.—Because of the increasing prevalence of tuberculosis in Scotland the Scottish committee of the British Medical Association has asked the Association to bring pressure to ear on the authorities and on public pinion to develop preventive measures gainst tuberculosis.

Analgesia Births.—Returns received by the Ministry of Health for the six months ended June 30, 1949, show that the number of mothers who received analgesia when their babies are born at home was 58,969, against 43,683 in the whole of 1947. Gas-and-air machines available for domiciliary midwives at the end of 1947 numbered 2,828 and at June 30, 1049 had reached 4,729, with over 500 on order.

Purchase Tax Information. — Revised editions of Notice No. 78 (goods chargeable with purchase tax) and of Notice No. 78B (drugs and medicines) are being sent to traders registered for purchase tax purposes. The new editions, dated January 1950, supersede all editions, amendments and specific rulings published up to October 31, 1949.

Indian Pepper Export Duty.—The Government of India has reached a compromise with the country's black pepper exporters on the amount of export duty to be paid on this dollar-earning commodity. The duty is to be assessed on a tariff value of Rs. 200 per cwt. as against the current market value which is over twice this figure.

Coal Tar Products Decontrolled.—The control and maximum prices of coal tar products are removed from January 1 by an Order (S.I. 1949, No. 2380) recently made by the Minister of Fuel and Power. Products decontrolled include naphthalene (crude, hot-pressed, crystal and powder, ball and flake) and coal tar acids.

Register of Orthoptists.—The ninth edition (1949) of the orthoptists' section of the National Register of Medical Auxiliary Services has just been issued. Orthoptists whose names are included in the register have qualified according to a standard approved by the Board of Registration of Medical Auxiliaries. A copy of the section, or of any other section, is supplied free to hospitals, local authorities, etc., on application to the Board, British Medical Association House, Tavistock Square, London, W.C.I.

U.S. Manufacturer to Produce in Britain.—E. R. Squibb & Sons, New York, propose to invest \$350,000 in the manufacture in the United Kingdom of a number of the company's medicinal and pharmaceutical products. The signing of a contract under which the company will be able to convert into dollars its receipts from investment in the United Kingdom was announced on December 28, 1040, by the Economic Co-operation Administration. A new wholly-owned subsidiary (see C. & D., October 15, 1949, D. 520) is to export 95 per cent. of its annual volume to other Marshall Plan countries and their overseas territories.

Wholesaler's Annual Conference.—The directors, executives and representatives of S. Maw, Son & Sons, Ltd., Aldersgate House, Barnet, Herts held an all-day sales conference in London on December 22. Brigadier A. R. W. Low, C.B.E., M.P., presided at the morning session and Mr. Denis M. Maw was in the chair at luncheon and at the afternoon session. At the luncheon, Mr. Denis Maw said that four generations of the family had preceded him in the business. In the nineteenth century the drug trade had been known as "Maw's trade."

#### LOCAL NEWS

Pharmaceutical Needs Unsupplied.—Poplar Council is to renew earlier requests to the London County Council and Ministry of Health for more chemists on the Isle of Dogs and in the Millwall and Cubitt Town districts. The Council will ask that the Galbraith Street Centre should be adapted as a health centre and provision made for a dispensing department.

Scientific Conversazione.—A scientific conversazione held at the Evans Biological Institute, Runcorn, Ches, on December 14, 1949, was attended by medical men, pharmacists, dentists, nurses, heads of schools and other professional people in the area. Demonstrations were arranged in all departments to show modern techniques and developments in medical, pharmaceutical and veterinary research. The guests were received by Mr. R. S. Roberts, F.R.C.V.S. (president, Evans Scientific Society).

Long Service Presentations.—To mark the completion of fifty years' service at the Wellcome Chemical Works, Dartford, Mr. H. Wilkinson was presented recently with a cheque by the board of the Wellcome Foundation, Ltd. Mr. Wilkinson has many recollections of the founder of the firm (the late Sir Henry Wellcome) and was a member of the Wellcome cricket team that won the wholesale chemists' and druggists' cricket championship for five successive years (1899 to 1903). Presentations to mark the completion of twenty-one years' service were also made to Messrs. E. C. Hassell, R. S. Mills, R. Underhill and A. F. James.

Sales Conference at Bardsley Vale.— A conference of the sales and medical representatives of Thomas Kerfoot & Co., Ltd., manufacturing chemists, was held at



REPRESENTATIVES AT LUNCH.—Representatives of S. Maw, Son & Sons, Ltd., at luncheon with the directors and executives of the company (see above).

Bardsley Vale, December 19-21, 1949. The morning sessions, which were devoted to addresses by the directors and senior members of the staff, were followed by general discussions. In the afternoons there were technical addresses by the chief chemist (Mr. H. Burlinson, Ph.C.), and tours of the works under the guidance of Mr. G. W. Hill (works manager). The latest methods in testing were explained by the chief analyst (Mr. J. S. Cannell, M.Sc., A.R.I.C.). At the closing session on December 21 Dr. T. H. Manners Ker-foot briefly reviewed the work of the Conference, referred to some forthcoming developments, and welcomed an old colleague (Mr. John Martin, Ashton-under-Lyne, now retired after more than fifty years' service with the company). Messages of greeting and goodwill were also exchanged with other retired members, Messrs, S. W. Herbert, E. J. Wilks and E. W. Hill. (Conference picture p. 13).

Medical Officer Speaks on the Psyche.

-The Bradford Branch of the Pharmaceutical Society held a meeting on December 6. 1910. at which Dr. J. Douglas (medical officer of health. Bradford) gave an address on psychosomatic conditions. He pointed out the tremendously increased world-wide usage of phenobarbitone-type sedatives and hypnotics, even in countries that had had no physical contact with the war. Examination into the phenomenon suggested that a disordered psyche was mainly responsible. and that psychic deterioration was also manifest in a considerable increase of peptic and duodenal ulcers, depression, worry. sleeplessness, etc. Often patients described symptoms of organic disease that were greatly exaggerated and investigation showed that the disordered mind had produced functional disorders of more common type, e.g., constipation and flatulence, which could deteriorate to produce organic disease. Prescriptions for such conditions were not always indicated, and whereas the barbiturates had a useful place in the physician's hands, one should not lose sight of the serious consequences of abuse and drug addiction. It was foreseeable that prescriptions would become fewer when those psychic disorders were more carefully studied. Treatment by reason and discussion could lead to an alteration of mental outlook, with greater freedom from worry. It was necessary for people to avoid over-fatigue, which lead to irritability and depression. Secondary interests in life were valuable to maintain a

balance and a real contribution to family mental health was the sharing of household duties. Many members took part in discussion, which developed quite a deep philosophic interest. Messrs. D. K. Waite and V. Flanagan proposed and seconded a vote of thanks to Dr. Douglas.

Chemists and the Law.—A meeting of the Glasgow branch of the Pharmaceutical Society was held on December 14, 1949, Mr. S. Hughan in the chair, at which Mr. R. M. McCrone spoke on "Forensic Pharmacy." Mr. McCrone gave a summary of Parts I and II of the Poisons Rules and briefly listed the twelve schedules and special regulations applying thereto. He sketched the regulations regarding the purchase and sale of drugs covered by the Dangerous Drugs Acts, methylated and industrial spirits and referred briefly to the Therapeutic Substances Acts and Amendments, the Penicillin Act and to streptomycin. Replying to questions on the supply of industrial spirit Mr. McCrone said that the maximum quantity that could be supplied was one pint, although half a gallon might be supplied to a doctor for professional purposes. An entry in the prescription book was not necessary when there was a National Health Service prescription for the spirit but some record must be kept for Customs and Excise requirements, To put "as directed" on a prescription for a schedule IV poison was incorrect but it was the responsibility of the doctor to detail the dosage. In conclusion, Mr. McCrone explained to students present how the choice of questions on forensic pharmacy in the examination paper was arrived at. Mr. Holm moved the vote of thanks to Mr. McCrone.

President at Plymouth.—The Plymouth Branch of the Pharmaceutical Society held a dinner and dance on December 14, 1949, when amongst the guests were the lord mayor and lady mayoress of Plymouth together with the president of the Society (Mr. H. Clement Shaw) and Mrs. Shaw, the mayor of Saltash and Mrs. Underhill (representing the Cornish Branch) and members from the Exeter and Torquay branches. The chairman (Mr. A. G. M. Madge) proposed "H.M. The King" and made a short speech of welcome to the guests. He hoped that the South-west of England would soon be represented on the Society's Council, The lord mayor, who proposed "The Pharmaceutical Society of Great Britain," expressed a desire to see the return of what he called "the good old family chemist" to sites in the new city centre. He pointed out that the rental for such sites would have to be in the region of £1,500 per annum, and thought that something should be done to accommodate the smaller type of business. The president responded suitably to the toast. Bouquets were presented to the lady mayoress and to Mrs. Shaw by Miss Vining (social committee) and Mrs. L. H. Bryan (wife of the secretary). A novel competition organised by Mr. W. Gale resulted in the presentation of £4 4s. to the lord mayor's Christmas appeal fund, an a similar amount to the Society's Benevolent Fund. Prizes for dancing were presented by Mrs. A. G. M. Madge (wife of the chairman), who also received a bouquet presented by Miss Vining. The M.C. for dancing was Mr. P. H. Cohen.

#### IRISH NEWS

Drugs Bill Announced.—The Ulster Minister of Health (Dame Dehra Parker) has announced that she is considering the introduction of a new Food and Drugs Bill to bring Northern Ireland fully into line with Great Britain,

Dublin Sports Activities.—The College of Pharmacy Gaelic Team who have this year been included in the strongest of the four divisions of the Dublin Senior League, are confident of further successes in the New Year. Since its recent appeal the club has acquired several new players; it is still open to receive further players and members.—At Clonmel recently the Chemists' Rugby Club defeated the home team by eleven points to eight.

Standards of Medical Service.-In the Ulster House of Commons recently the Minister of Health and Local Government was asked whether she was aware that it was still commonly believed that good medicine could only be obtained by paying a doctor privately, and if so, whether she would do what lay in her power to disabuse the public of that erroneous idea. Replying, Dame Dehra Parker said she had no reason to think that the general public, of whom over 96 per cent. had registered with their doctors under the Health Service, had the mistaken idea that good medicine was obtainable only in that way. She would be sorry to believe that that was the case, and she would naturally combat the idea so far as lay in her power. She was sure that the fact that doctors

generally were providing their patients with the same high standard of service as they were previously was the best corrective to such erroneous ideas.

Health Board to Seek Legal Advice .-A decision of the Pharmaceutical Advisory Committee to take no action in the case of a chemist who had stated that he was operating the rota scheme under protest came before a meeting of the Northern Ireland General Health Services Board held in Belfast on December 28, 1949. A medical member of the Board said he doubted whether the Board had power to compel people to work a rota scheme. He contended that the Regulations made under the Health Service Act were ultra vires, and urged that legal opinion should be sought as to their legality before attempts were made to put doctors and chemists on rota schemes. It was decided to take such action. The Board approved a recommendation by the Pharmaceutical Advisory Committee that two chemists who had opened part-time branch shops for a few hours a day should be informed that permission to dispense prescriptions under the scheme in those shops would be withdrawn unless they were prepared to give fulltime service.

Licence Certificates.—At a meeting of the Council of the Pharmaceutical Society of Ireland, recently (see C. & D., December 31, 1949, p. 905), the Licence certificates of the following were signed and sealed: William J. Burke, Stanislaus J. Butler, Mary A. Carroll, John A. Gleeson, Kathleen T. Masterson, Mary J. Mulvey, Cornelius D. J. Murphy, John J. Nugent, Maureen O'Driscoll, Michael F. O'Connor, Patrick J. Salmon, Elizabeth Smyth and Eugene T. Traynor. The following were elected members of the Society: Misses Catherine Leahy, Anne Lacy, Mary McCarthy; Messrs. P. J. Connolly, W. J. Gardiner, G. V. King and P. A. O'Connor. The following were nominated for membership: Messrs. Francis J. Timoney, Dublin; Daniel M. Lynch, Castlebar, co. Mayo; Michael S. Riordan, Dublin; William Young, Mountbellew, co. Galway; Patrick R. Tedders, Edenderry, Offaly; Mary E. Galvin, Boherbee, co. Cork; Dermod T. Toomey, Dun Laoghaire; J. J. Byrnes, Dublin; John P. McDermott, Naul, co. Dublin; Bridget C. Gorman, Limerick; Augustine S. Gleeson, Birr, Offaly. The Benevolent Fund Committee meeting passed grants to the total value of £108.

#### **TOPICAL REFLECTIONS**

#### New Year Greetings

One of the happiest innovations made by you in recent times is the publication of greetings for the opening of each year. Looked at as a whole they form a crosssection of the drug and chemical industries, pharmacy and associated trades. While it may be that few of your readers have made time to read all the contents on pp. 896-901 of last week's issue, it is to be hoped that most of the messages are finding a response, if only a silent one. No one who scans these pages can regard pharmacists as a selfish class: on the contrary, a genuine altruism is evident. Mr. Fred Storey, president of the Chemists' and Druggists' Society of Ireland, writes: "We must not pay undue attention to the more immediate issues affecting our own personal welfare . . . we are only one section of the community harassed by difficulties arising out of the changes brought about in our way of living." Miss Edith F. Hayward, presi-dent of the National Association of Women Pharmacists, makes a similar suggestion on the difficulties confronting wholesalers, retailers and hospital pharmacists: "It appears that the best way in which to approach these problems is not to ask 'How does this affect me?' but 'How does this affect all pharmacists?'" From a different angle the president of the Association of British Pharmaceutical Industry, Mr. R. L. Taylor, gives a timely reminder that the repute of British pharmacy "cannot rest upon the activity of any single organisation"; and that "in the eyes of those observers in other countries who are studying the progress of this [National Health] service, the prestige of this industry depends to a very considerable extent upon the standards and efficiency of every branch of the pharmaceutical service of Great Britain.

#### Practical Suggestions

This sample of New Year greetings may be completed by drawing attention to practical suggestions made by heads of some leading institutions. The president of the British Chemical and Dyestuffs Traders' Association, Mr. G. S. Bache, and the chairman of the Proprietary Association of Great Britain, Mr. F. A. S. Gwatkin, stress in their messages the importance of increased freedom for the trading community of this country. "I sincerely hope" Mr. Bache writes, "that further measures of

freedom may be introduced in the forthcoming months and thus give added impetus to the efforts of all concerned in our economic survival." Mr. Gwatkin trusts that "more harmonious and less restrictive trading conditions" may be found in the year 1950, together with "the mutual spirit of co-operation which has been evinced in previous years." Finally, the Master of the Society of Apothecaries of London, Dr. Duncan C. L. Fitzwilliams, makes a statistical contribution to the question of the employment of apothe-caries' assistants in dispensing. He holds that it will be impossible to staff hospital dispensaries with "highly qualified persons who have obtained degrees comparable with those of a University," and summarises the results of 739 replies to a circular on the subject sent by his Society to hospitals.

#### Formation of the Royal Society

A reference to the Royal Institution on p. 902 sent my thoughts to its West End neighbour the Royal Society, now almost exactly double the age of the Albemarle Street sodality. For many years past there has been irregularity in published references to the formation and foundation of the Royal Society, and it is desirable to be clear about the relevant dates. writers have cited the date of the first charter; others the date of the meeting convened to give the Society a definite status; others, again, a still older date. All we need to know on this subject can be found in the excellent history of the Society by the late Sir Henry Lyons, published in 1944. The earliest date on which this author relies is "about 1645," when the Invisible College (also known as the Philosophical College), consisting of a few students of "philosophical enquiries," met in London—sometimes at Dr. Goddard's "lodgings" in Wood Street in the City, sometimes at a tavern in Cheapside, and sometimes at "some other place not far distant." In 1648, certain members of the small group removed to Oxford, where they met at first in the house of an apothecary, "because," wrote one of them, Dr. Wallis, "of the convenience of inspecting Drugs and the like." The meeting establishing the Society was held in London on November 28, 1660, and the first charter of the organisation was sealed on July 15, 1662. Xrayser

#### **NEW COMPANIES**

STANLEY Z. JACKSON (CHEMIST), LTD., (P.C.).—Capital £5,000. To carry on the business of wholesale or retail chemists, etc. Stanley Z. Jackson, M.P.S., and Anita Jackson, directors. R.O.: 27 East Parade, Leeds, 1.

Dales Tablet Makers, Ltd. (P.C.).—Capital £3,000. To carry on the business of manufacturing and dispensing chemists and druggists, etc. Clifford E. Tolkien and Hilda A. Tolkien, directors. R.O.:

2 Barrows Lane, Steeton, near Keighley.

WALDECK & NEWBORNE, LTD. (P.C.).—Capital £3,000. To carry on the business of merchants and traders in oils, chemicals, etc. Ivor C. Waldeck, Leopold Newborne and Joan M. Waldeck, directors. R.O.: 48 Moorgate, London, E.C.2.

E. M. BROTHERTON & Co., LTD. (P.C.).
—Capital £1,200. To carry on the business of chemists and druggists, opticians, etc. Elsie M. Brotherton and Walter P. Warwick, directors. R.O.: 48 Broadway Market, London, E.8.

T. R. Burrows (Chemists), Ltd. (P.C.).—Capital £4,000. To acquire the business of a chemist formerly carried on by Thomas R. Burrows at Post Office Square, Beeston, Notts, Thomas R. Burrows, M.P.S., and Florence Burrows, directors.

V. Berg & Sons, Ltd. (P.C.).—Capital £75,000. To acquire the business of general produce and commodity merchants carried on at 23 Eastcheap, London, E.C.3, as V. Berg & Sons. Harry M. E. von Berg, Alfred G. von Berg and Harold G. Berg, directors.

PREEMO & SILKS TOILET CO., LTD. (P.C.).—Capital £1,000. To acquire the business of Preemo & Silks Toilet Co. hitherto carried on at 330 Kilburn High Road, London, N.W.; and to carry on the business of manufacturers of perfumes and essences, soaps, toilet preparations, etc. First directors are not named.

#### Company News

Sangers, Ltd. — An interim ordinary dividend is recommended of 10 per cent. (the same).

EVANS MEDICAL SUPPLIES, LTD. — An interim ordinary dividend has been declared of 3 per cent., less tax (the same), in respect of the twelve months ended December 31, 1949.

Antigen Laboratories, Ltd. — The company announces that Messrs. C. P. Malley, P. T. Kehoe, R. F. Corran and F. L. Rolph constitute the board of directors. [Corrected note.]

International Sponge Importers, Ltd.—The directors propose a capitalised bonus of £32,539 by the distribution to ordinary holders, registered on February 13, of 130,156 ordinary shares of 5s. each in the proportion of one new share for every 25s. of ordinary stock held, fractions to be sold.

BLACKWELL, HAYES & Co., LTD., Birmingham.—Mr. George Edward Trower has been appointed a director. Mr. Trower, who has served the company for many years, has been elected to fill the vacancy on the board caused by the death of the late Mr. George Heber Ingall, J.P.

#### **BUSINESS CHANGES**

GORDON-MOORE & Co., dentifrice manufacturers, have purchased a site for larger works at Park Royal, London, N.W.10.

KING AND PHIPPS, LTD., have opened a dispensing department at 8 Earls Hall Parade, Southend-on-Sea, Essex.

Mr. J. M. Kirkness, B.A., has been appointed assistant secretary (export) of the Association of British Pharmaceutical Industry.

Mr. David Davis, Ph.C., has acquired the pharmacy at 272 Albany Road, Camberwell, London, S.E.5, formerly owned by Mr. W. C. Spooner, M.P.S.

MAYBORN PRODUCTS, LTD., are removing to Dylon Works, Berryman's Lane, Mayow Road, Sydenham, London, S.E.26, on February 1.

MR. W. E. GAZE, M.P.S. (secretary, Walthamstow Pharmaceutical Association and Branch of the National Pharmaceutical Union), has removed to 33 Beridge Road, Halstead, Essex.

J. M. SMITH & Co. (LONDON), LTD., Hampton Chemical Works, London, S.E. 15. have appointed Mr. P. J. Ball, 29 Woodberry Crescent, Muswell Hill, N. 10, as their representative in East Anglia, Beds, Bucks, Cambs, Derbys, Herts, Hunts, Leics, Northants, and Rutland. Mr. J. E. Fisher is now no longer connected with the company, Mr. Ball continues to represent Saville Perfumery, Ltd., in the same area.

#### MARRIAGE

DONALD—MCGEACHIE.—At High Street Church, Dumbarton, on December 26, 1949, James Donald, elder son of Mr. James G. Donald, M.P.S., 18 West Princes Street, Helensburgh, to Margaret McGeachie, 5 Overburn Avenue, Dumbarton.

#### **DEATHS**

BUCHAN.—On January 3, Mr. Andrew Buchan, 78 Wynchgate, Southgate, London, N.14, aged seventy-four. Mr. Buchan was for over fifty years on the staff of Duncan, Flockhart & Co., Edinburgh and London, for many years acting as representative in the North and East London areas.

CRAIG.—On December 21, 1949, Mr. William Reid Craig, M.P.S., 517 Shields Road, Glasgow, aged eighty-one.

Hague.—On December 20, 1949, Mr. Harry Phipps Hague, M.P.S., 123 Alcester Road, Moseley, B'rmingham, aged sixty-six.

Hughes.—On December 15, 1949, Mr. William Hughes, M.P.S., 12A Claremont Road, Twickenham, Middlesex, aged eighty-one.

Mayson.—On December 8, 1949, Mr. Wilfred Leslie Mayson, M.P.S., 20 Mapperley Road, Nottingham, aged seventy-two.

Thomson.—On December 9, 1949, Mr. Alexander Thomson, 125 West Bridgend, Dumbarton, aged seventy.

TOPPING.—On December 5, 1949, Mr. Walter Topping, M.P.S., The Pharmacy, Conway Road, Mochdre, Colwyn Bay, aged seventy-seven.

#### WILLS

Mr. D. S. Davies, M.P.S., 6 Nott Square, Carmarthen, left  $\pounds_{35,079}$  (£28,959 net).

Mr. D. J. Fraser, M.P.S., Ardlaw, Fairlight Road, and 35 High Street, Hythe, Kent, left £15,947 (£15,066 net).

Mr. W. L. Sanders, M.P.S., 30 The Avenue, Lowestoft, Suffolk, left £15,528 (£15,428 net).

Mr. W. H. WILLIAMS, F.C.I.S., A.L.A.A., 31 Corringham Road, Wembley, Middlesex, formerly of Liverpool, and 150 King Henry's Road, London, N.W.3, secretary and manager of the Pharmaceutical Export Group, left £11,947 (£11,881 net).

#### **PERSONALITIES**

Mr. H. E. Johnson, M.P.S., sales manager of Arthur H. Cox & Co., Ltd., Brighton, is emigrating to Sydney. Australia. for reasons of his family's health. Mr. Johnson himself continues to enjoy his usual good health. [Corrected note.]

MR. STANLEY BALL, B.Sc., Ph.D., A.R.I.C., who contributes the first of two articles on Vitamin B<sub>12</sub> in this issue, has been working in the vitamin B<sub>12</sub> field as assistant to Dr. E. Lester Smith, since joining Glaxo Laboratories, Ltd., in 1948. He had previously taken an honours degree in the School of Physical Chemistry, Liverpool University, and had in 1945 joined the biochemistry department of the University where he worked under Professor R. A. Morton on the relationship of vitamin A to vision. Dr. Ball published several papers on that subject and was awarded the degree of Ph.D. for the work, New Year Honours.—Included in the

New Year Honours list published on January 2 were the following: -Baron: Dr. Haden Guest, M.P. Knights Bachelor: Dr. J. A. Charles (Deputy Chief Medical Officer, Ministry of Health) and Mr. H. V. Tewson, C.B.E. (general secretary, Trades Union Congress). C.B.E.: Messrs. H. W. Dawes, F.R.C.V.S. (president, Royal College of Veterinary Surgeons, 1946-49); and J W. Munro, D.Sc. (professor of zoology and applied entomology. Imperial College of Science). O.B.E.: Messrs. G. Beadsworth (chief organising officer, Union of Shop, Distributive, and Allied Workers); T. Goodey, D.Sc., F.R.S. (senior principal scientific officer. Rothamsted Experimental Station); E. Griffiths, D.Sc., F.R.S. (senior principal scientific officer. Department of Scientific and Industrial Research); and H. Hepworth (delegate managing director, Imperial Chemical (Pharmaceuticals), Ltd.); Colonel B. Taylor Lloyd, M.C., J.P., D.L., M.P.S. (a member of the Welsh Pricing Bureau, Cardiganshire N.H.S. Executive Council, and the Mid-Wales Hospital Management Committee); Mr. F. R. Thornton (Chief Inspector under the Dangerous Drugs Acts); Miss L. C. Watson (principal, Department of Health for Scotland); and Dr. J. H. Harley Williams (secretary, National Association for the Prevention of Tuberculosis). B.E.M.: Messrs, E. Christofides, Z. P. Eliades, C. G. Fisher, S. E. Soteriou. A. Tewfik, and M. Toumazou (field supervisors, Malaria Eradication Scheme, Cyprus); and M. S. Kapere, (African Trypanosomiasis Organisation).

#### TRADE NOTES

A Depot for Sundries.—George B. Ritchie & Co., 249 Buchanan Street, Glasgow, C.I., offer a wholesaling service in chemists' sundries.

Children's Rub. — Illustrated on another page is a new Thermogene rub for children manufactured by the Thermogene Co., Ltd., and distributed by J. C. Eno, Ltd., Watford, Herts.

Photographie Equipment.—A seventytwo page catalogue of photographic accessories has been prepared by Neville Brown & Co., Ltd., Newman Yard, Newman Street, London, W.I. A synopsis of the contents is given on another page.

Change of Distribution. — By mutual arrangement between the company and the previous distributors, the products of Southon Laboratories, Ltd., 84 Upper Richmond Road, London, S.W.15, are now (from January 1) being distributed by the manufacturers.

Identity of a Product.—In an account given recently in these columns of a lecture to the Harrow Branch of the Pharmaceutical Society, reference was made to a product that has been found effective against Streptococcus faecalis. The name of the product was given as received but it has since been pointed out that the name is Metrasil and not as there spelt.

Bonus Offers.—ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2, give on another page the details of a bonus offer of the Allenburys chilblain stick.—The CROOKES LABORATORIES, LTD., Park Royal, London, N.W.10, give on another page details of standard bonus parcels of

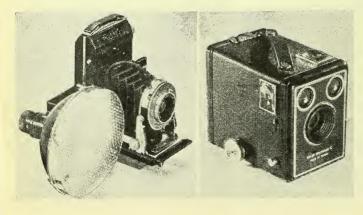
Crookes halibut oil.—Tryst Cosmetics, Ltd., Carlisle Road, London, N.W.9, invite chemists to write for details of a special bonus offer of Tryst lip pencil.

Distribution in Northern Ireland.— Brookes Appliance Co., Ltd., Hilton Chambers, Hilton Street, Manchester, I, have appointed Mr. Ernest A. Poots, M.P.S., 84 Main Street, Larne, as their fitting and distributing agent for Northern Ireland.

New Antihistamine.—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, have introduced Histantin brand dl-l-(p-chlorobenzhydryl)-4-methyl-piperazine monohydrochloride for use in the symptomatic treatment of allergic conditions. Histantin is issued for oral administration as 50-mgm. sugar-coated compressed products in bottles of twenty-five and 500.

New Flasholder; Box Cameras Again .-Kodak, Ltd., Wealdstone, Harrow, Middlesex, have introduced a Flasholder (the Kodak) that enables indoor photographs to be taken by amateur photographers irrespective of lighting conditions. flasholder is quickly fitted to the camera. In use, it is loaded with a fresh battery, attached to the camera, and the connecting lead fitted to the plug on the shutter. Then a flashbulb is fitted, the shutter is released, and synchronisation between the shutter and bulb is automatic. Two models are available at present in Britain; the type B for use with the Brownie reflex camera, and the type KA for use with all models of the Six-20 Kodak A range. Messrs, Kodak also announce that box Brownie cameras in the Six-20 range are again available in

Britain after lapse of over ten years. At present the only model available Six-20 Brownie C (supplies limited). The Six-20 Brownie D and E models will follow shortly. The model C is fitted with a menislens giving cus sharp pictures from 10 ft. to infinity. It has a fixed focus and fixed aperture; and takes eight pictures on the film.



Calendars.—The Editor acknowledges receipt of calendars from the following manufacturers and wholesalers: - Boxfol-LTD., Bournbrook, Birmingham (month to page; white figures on black ground); DAVEY, PAXMAN & Co., chemical plant manufacturers, Colchester (two months to page; scenes of Colchester, past and present); M. HAMBURGER & Sons, Ceylon House, Eastcheap, London, E.C.3 (month to page; illustration shows tragacanth-grinding plant); Howards & Sons, LTD., Ilford (month to page, with illustration in colour of 17th-century barber's bowl); J. F. MACFARLAN & Co., Boreham Wood, Herts, and Edinburgh, 8 (three months to page; illustrated with Scottish landscapes); Thomas Morson & Son, LTD., Summerfield Chemical Works, Ponders End, Middlesex (full colour design showing a collector of antiques amongst his treasures); Munro, VITAREX, LTD., 6 St. Faith's Road, Tulse Hill, London, S.E. 21 (month to page; reproduction of painting, "Blue Jacket," by W. G. de Glehn, R.A., for Charmony products); C. OLLEY & SONS, LTD., cork merchants, Camperdown Street, London, E.1 (three months at sight, monthly tear-off with "seaside holiday" illustration); ORME-RODS, LTD., label specialists, Hanging Mill Road, Rochdale (week-to-page engagement block on card with full-colour rose illustration); SANDOZ PRODUCTS, LTD., 134 Wigmore Street, London, W.I; STANDARD SYNTHETICS, LTD., 76 Glentham Road, Barnes, London, S.W.13 (day-to-day tear-off); Whiffen & Sons, Ltd., Carnwath Road, Fulham, London, S.W.6 (month-to-page tear-off).

Price Changes.—John Bell, Hills & Lucas, Ltd., Oxford Works, Worsley Bridge Road, London, S.E.26, announce higher prices for the products of the Cavendish Chemical Co. (New York), Ltd., for whom they act as sole distributors. The preparations include Bidupan, Cavecol, Carnacton, Cavolysin (also known as Lipolysin), Ovonad and Testonad. The increases are a result of the recent devaluation of sterling. A new price list is in course of preparation and copies will be sent to chemists on request when ready.—The British Drug Houses, Ltd., Graham Street, City Road, London, N.I, state that the prices of all strengths of Estigyn ethinyl cestradiol were reduced on January I. A new strength (I-mgm.) has been introduced in bottles of twenty-five, 100, 500 and 1,000.—British Schering, Ltd., 229

Kensington High Street, London, W.8, announce that reduced retail prices for all the company's hormone preparations took effect on January 1.—On January 1, CIBA LABO-RATORIES, LTD., Horsham, Sussex, reduced the price of Eticyclin ethinyl æstradiol Linguets (0.01-mgm. and 0.05-mgm.); at the same time 1-mgm, tablets of the product were introduced in bottles of twenty-five, 100, 500 and 1,000. Messrs. Ciba also point out that they are suppliers of deoxycortone acetate in many forms under the trade name Percorten; a full range of strengths and packages is listed in the company's January 1950 price list which is now being mailed to all registered pharmacies and hospital pharmacists. — Ray-WARP TEXTILES, LTD., Alfred Street North, Nottingham, announce that the price of their R7 slumber net with elastic chin-strap was reduced on January 1.— ROUSSEL LABORATORIES, LTD., 4 Golden Square, London, W.1, reduced on January I the price of Ethinœstryl (ethinyl œstradiol Roussel) in the 0.05-mgm. and 0.01-mgm. strengths, and introduced I-mgm. tablets in containers of twenty-five, 100, 500 and 1,000 tablets.—Thermogene, Ltd., (distributors: J. C. Eno, Ltd., Watford, Herts), state that Thermogene medicated wadding became liable to purchase tax at 333 per cent. on January 2. — TRUFOOD, LTD., Bebington, Wirral, Ches, announce alterations in the prices of Follow-on Trufood (20-oz. pack) and Prosol high-protein food (16-oz. pack), in operation as from December 19, 1949.

#### Proprietary Articles Trade Association

Additions to Protected List (Part 1).

—Crookes Laboratories, Ltd., Collosol sulphur cream, 2-oz. pot, 28s. doz., tax 33\frac{1}{3} per cent., inclusive retail price 4s. 3d.

f. C. Eno, Ltd., CP10 antiphlogistic poultice, 2 x 2 in., 7s. 6d. doz., tax  $33\frac{1}{3}$  per cent., i.r.p. 1s.; 4 x 3 in., 16s. 10d. doz., tax  $33\frac{1}{3}$  per cent., i.r.p. 2s. 3d.; 8 x 6 in., 22s. 6d. doz., tax  $33\frac{1}{3}$  per cent., i.r.p. 3s.

Alterations to Protected List (Part 1).

—A. H. Cox & Co., Ltd., Zom brand pile suppositories, box of twelve, 20s. 3d. doz., tax 33\frac{1}{3} per cent., i.r.p. 3s. 6d.

Dinneford & Co., Ltd., Dinneford's magnesia tablets, 10s. 10d. doz., tax 33\frac{1}{3} per cent., i.r.p. 1s. 6d.

Nestlé Co., Ltd., Nestrovite tablets, 20's, 28s. doz., 3s. 6d.; 100's 126s. doz., 15s. 9d. (exempt).

#### LEGAL REPORTS

Drugs Stolen from Car.—At Birmingham, recently, Dr. Heinz Shire, Bernard Road, Edgbaston, was fined £10 on a charge of contravening the Dangerous Drugs regulations. It was stated that the drugs were left in his car. The car was locked, but a faulty mechanism of one window led to the theft of two surgical cases, one containing drugs. Dr. Shire pleaded guilty.

Costs on Deficiency Charge. — On a summons for selling a quantity of tincture of iodine not of the nature, substance and quality demanded, James O'Keeney, M.P.S.N.I., Main Street, Draperstown, co. Londonderry, Northern Ireland, was dealt with under the Probation Act at Draperstown petty sessions on December 22 and ordered to pay £2 12s. 6d. costs. The resident magistrate said it was a technical offence and he did not think that it reflected in any way on defendant's profession or the stock in his shop. "I think a warning would have been sufficient."

Poisons Through Unauthorised Sellers. -A case in which two retailers were summoned under the Pharmacy and Poisons Act, 1933. and a wholesaler under the Summary Jurisdiction Act, 1848, both in connection with the supply and sale of morphine in Gee's linctus, came before the magistrates at Grays, Essex, on December 16, 1949. Elsie L. Winwood, The Broadway, and Albert John Cowling, Clarence Road, Grays, were each charged with selling the product though not authorised sellers of poisons. The charge against Potter & Clarke, Ltd., Artillery Lane, London E. L. was of aiding and abetting London, E.I. was of aiding and abetting the commission of the offence. Both shop keepers pleaded guilty, but the company put in pleas of not guilty. The solicitor prosecuting on behalf of the Pharmaceutical Society stated that the case was concerned with morphine, not as a Dangerous Drug, but as a poison: it was one of the ingredients of Gee's linctus. Fines of £1 each were imposed on the retail defendants. The case against the wholesalers presented rather more difficulty. Counsel for the company argued that there was no case to answer-with every criminal offence, proof had to be shown of guilty knowledge before a person or persons could be charged with aiding and abetting. In his contention wholesalers were under no obligation to check the names of dealers with whom they had, before sending out preparations containing statutory poisons, been in

contact. "The Pharmaceutical Society is trying to find a way of getting round by the back door of the Pharmacy and Poisons Act in trying to impose a duty removed from wholesalers by the Act." he said. The company's managing director (Colonel Richard Wren, M.P.S.) gave evidence that he had sent round to all executives of the company circulars pointing out the need for care in supplying Part I poisons, together with a list of such poisons. His representatives had been instructed not to take orders from retailers who were not authorised sellers of poisons. The magistrates imposed a fine on the company of 40s. in each case, holding that there was a case to answer. For Messrs. Potter & Clarke it was indicated that there would be an appeal against the magistrates' decision.

## INTERNATIONAL EXCHANGE OF INFORMATION

A SCHEME for the exchange between member countries of the Organisation for European Economic Co-operation of government-published scientific and technical literature came into operation on January 1. The scheme provides for the free supply by each of the Governments concerned to each of the others of up to six copies of all Government documents which are published on or after January 1, and which deal with the following subjects: (a) Physical and biological matters of interest to industry; (b) any branch of technology; (c) medical matters of industrial interest; (d) economic questions relating to productivity, including statistical material.

Austria, Denmark, France, Holland, Italy, Norway and the United Kingdom have already agreed to take part in the scheme, and other countries will join as soon as arrangements can be completed. Each member country has been asked to name a clearing house to be responsible for the selection and dispatch of outgoing documents and the receipt and dissemination of incoming material, and the Technical Information and Documents Unit of the Board of Trade, 40 Cadogan Square. London, S.W.1, is to undertake this work for the British Government. Lists of titles of incoming documents will be broken down into categories and sent selectively to trade and research organisations, etc.. who have provided the Unit with particulars of their requirements. The documents will be available for reference at Cadogan Square, and later at other centres.

#### A.B.P.I. REORGANISES

FOLLOWING several months of negotiations, the Pharmaceutical Export Group became merged, on January I, with the Association of British Pharmaceutical Industry. The joint organisation will function under the title of the Association.

#### Revision of Constitution

The merger coincides with a fundamental revision of the constitution of the A.B.P.I., designed to provide at least as good an export service to members as was enjoyed by the members of the Export Group; to avoid excessive departmentalisation in the new organisation and promote contact and interplay between home and export points of view at all levels of discussion. Members of the Association have been grouped into four main functional divisions under two executive bodies (home and export). The two executives are to undertake much of the work that has previously occupied the Council of the Association and the executive committee of the Export Group. The new rules provide for the representation of the different divisions on the executive or executives appropriate to their interests and, through the executives, on the Coun-The groupings are as outlined:-

Division A.—Manufacturers and wholesalers of pharmaceutical preparations for the home retail and hospital trade. Members may be subdivided into groups A1 (manufacturing and/or wholesale druggists); A2 (wholesale distributors of medicinal proprietary articles); and A3 (members whose main businesses are situated in Scotland and who are members of the Scottish Wholesale Druggists' Association).

Division B.—Manufacturers of medical, veterinary and dental speciality products for the home and export trades and advertised exclusively to those professions.

Division C.—Manufacturers of pharma-

DIVISION C.—Manufacturers of pharmaceutical materials and preparations for the home wholesale and export trades.

Division D.—Members or associate members of the Association engaged in export trade.

Group A1 of Division A nominates six persons to the home executive, group A2 three persons, and group A3 one person. Division B nominates three persons to the home and four to the export executives; Division C three to the home and four to the export; and Division D eight persons to the export executive. Each executive nominates six members of Council, ensuring that

each division or group is represented. In addition to the twelve nominated members the Council consists of nine members elected at annual general meeting and retiring in rotation, president, vice-president, immediate past-president, honorary treasurer and three trustees (all appointed by the Council), and the chairmen and vice-chairmen of the home and export executives. The Council may co-opt, for not longer than one year at a time, not more than two persons, either members of the Association or from related professions or industries.

#### Long-term Policy

The delegation of many immediate and practical problems to the executives is expected to enable the Council to give more time and thought to questions of long-term policies of development and progress (already a manual on costing is in preparation and nearing completion. Other matters receiving attention are the stimulation of productivity by interchange of know-ledge among firms in this country, and the organisation of a team to visit American concerns under the auspices of the Anglo-American Productivity Council). A committee has been set up to advise the Council on the relative value of exhibitions, and to co-operate with exhibition promoters to give effect to practical improvements where possible. On the export side, activity is being directed to increasing exports to dollar markets, especially Canada.

Announcing the reorganisation at a Press conference on December 29, 19/0. Mr. R. L. Taylor (chairman of the Association), said that the home market was naturally a first priority. The greatly increased demands of the National Health Service had been met without any significant hitch in manufacture or distribution. The new British Pharmacopæia had created difficulties for manufacturers. To those problems the National Formulary and Codex had added. The enterprire of the industry had been able to solve them and to meet increasing overseas competition.

Almost a Panacea?—"Hench jokingly remarked that it looked as if athlete's foot would be the only condition omitted from the final therapeutic list [of Cortisone]".—Dr. F. Dudley Hart in "Broad Way" (the magazine of the Westminster Hospital, London).

#### REPORT ON P.A.S. AND STREPTOMYCIN

A PRELIMINARY report on the use of p-amino salicylic acid (P.A.S.) and streptomycin in pulmonary tuberculosis has been issued by the Tuberculosis Research Unit of the Medical Research Council. It is based on results derived from a controlled trial commenced in 1948 (and not yet completed). The preliminary results are given in the "British Medical Journal" (1949.II.1521). A major disadvantage in the use of streptomycin, states the report, is that the period of effective therapy is limited in many patients by the emergence of streptomycin-resistant strains of tubercle bacilli after five or more weeks of treatment. It was thought that the addition of another tuberculostatic agent might suppress the resistant strains, which initially are present in very small numbers. Published reports on a few cases treated with P.A.S. and streptomycin were encouraging. The present investigation was planned to examine, by controlled trial, the possibility that P.A.S. had that property, and at the same time to assess the clinical effect of the drug alone and in combination with streptomycin. methods of investigation were similar to those employed in the first M.R.C. clinical trial of streptomycin in pulmonary tuberculosis (see C. & D., 1948.II.705), and the type of case was again defined as "acute rapidly progressive bilateral pulmonary tuberculosis, of recent develop-ment, unsuitable for collapse therapy, in young adults aged fifteen to thirty." For that type of case the trial has "demon-strated unequivocally" that the combination of P.A.S. with streptomycin reduces considerably the risk of development of streptomycin-resistant strains of tubercle bacilli during the first six months of treatment.

#### Three Groups

In the trials, three treatment groups of over fifty cases each were observed, and were treated with respectively; (a) P.A.S. alone (20 gm. of the sodium salt daily); (b) streptomycin alone (1 gm. daily); and (c) both drugs together (20 gm. of the sodium salt of P.A.S. and 1 gm. of streptomycin daily). After patients had been accepted for the trial by a panel, they were allocated to one of the groups by random selection. The prescribed treatment was given for three months in each case. Clinicians and pathologists at eleven hospital centres co-operated in the investi-

gation, keeping uniform records, employing standard clinical and bacteriological procedures, and reporting results at regular intervals to the Tuberculosis Research Unit, where the grouped results were analysed.

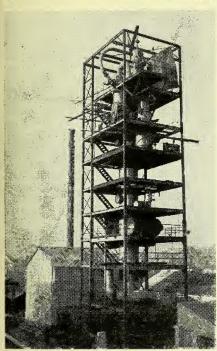
The Unit warns that its preliminary conclusion is applicable, so far, only to the acute form of disease treated, and that it remains to be seen whether the same results are obtainable in other forms of tuberculosis amenable to streptomycin therapy. Furthermore, the conclusion is applicable only to the large dose of P.A.S. used; that dosage causes discomfort in some patients, and it has been agreed to find out, by further trials, whether smaller doses would achieve the same result. The Unit stresses also that streptomycin is effective only in certain forms of tuberculosis, and the finding reported must not be interpreted as indicating that a combination with another drug will be effective in those forms in which little result would be expected from streptomycin alone.

#### Press Conference

At a Press conference called in London on December 30, 1949, by Herts Pharma-ceuticals, Ltd. (one of the manufacturers of P.A.S.), to stress the possible limitations of the use of the drug, Dr. D. Mc-Anally (medical consultant to the company) warned that it was too early to say whether strains of the tubercle organism resistant to P.A.S. and streptomycin would emerge. Mr. D. E. Seymour (head of the company's research department) pointed out that the compound was relatively simple to make, and therefore, could readily be made available in sufficient quantities for all patients' needs. Other speakers said that 315 hospitals and about 5,000 patients were already being supplied with the drug, and that a new factory to manufacture the intermediate meta-aminophenol and the final product would commence production towards the end of 1950. Dr. G. M. Dyson suggested that the cost of treatment with P.A.S. would be reduced by large-scale manufacture to about 5s, per week per patient.

Customs and Excise Report. — The Treasury has published a report of the Commissioners of H.M. Customs and Excise for the year ended March 31, 1949. The report is obtainable from H.M. Stationery Office, price 3s.

#### NEWS IN PICTURES



FATTY ACIDS MANUFACTURE:—Main distination structure of plant for first British fatty-acid production erected by Hess Products, Ltd., Leeds.



U.S. VISITOR AT GREENFORD.—Dr. Pearl Kendrick (see C. & D., 1949.II.853) with Mr. R. S. Hunwicke and Dr. J. Ungar (Glaxo Laboratories, Ltd.)



PRESIDENT AT PLYMOUTH.—Mr. H. Clement Shaw with lord mayor of Plymouth and chairman, local branch of the Pharmaceutical Society (see p.3).



SALES CONFERENCE.—Representatives of Thomas Kerfoot & Co., Ltd., Bardsley Vale, photographed in conference recently (see p. 3). Also in the group are: Messrs. G. W. Hill (works manager), A. W. Humphreys (sales manager), F. A. Knowlson (screetary), and H. Manners Kerfoot (a director), Dr. T. H. Manners Kerfoot (a director), Messrs. E. H. Shields (advertising manager), and H. Burlinson (chemist).

#### SERVICE TO LOCAL HOSPITALS

Rôle Played by Retail Pharmacists

A PAPER entitled "The Rôle of the Retail Pharmacists in Rendering Pharmaceutical Service to Local Hospitals," prepared jointly by Messrs. H. T. Thomas, M.P.S., and J. G. Nicoll, Ph.C., was read by Mr. Thomas at an evening meeting of the Pharmaceutical Society's Scottish Department on December 14, 1949. Mr. C. W. Macfarlane, Ph.C. (chairman of the Executive), presided. An abstract of the paper is given below:—

#### Rural Problems

The local hospital means a great deal to people living in rural areas, often miles from a town, and is virtually the centre of local medical activity. Remoteness from a large centre presents many problems to the pharmacist, not the least of which is keeping adequate stocks of the more out-of-the-way articles. The difficulty is increased if the hospital is used for all types of cases except those requiring specialised surgery or treatment. As one goes farther afield from the large centre one finds an increasing desire on the part of the doctors to treat their own patients in the local hospital. In an area with a number of small hospitals, a central pharmacy can supply their needs.

The enormous strides made in medicine during the past twenty years have been reflected in pharmacy by demands for more medicaments presented for parenteral injection, which calls for a higher degree of professional skill from the pharmacist if he intends to prepare such medicaments himself. More planning in the pharmacy itself, in connection with the layout and arrangement of benches and apparatus, is also called for.

A common remark is "Why bother with all this planning and outlay of capital, when I can always procure injections from the wholesaler?" In rural areas, to obtain urgent supplies from the wholesaler or manufacturer by post means a delay of about twenty-four hours. The answer is to produce the injection in the pharmacy. Only by making simple injections can one gain the necessary experience and practice to tackle the more difficult preparations. Far too few pharmacists equip themselves for anything outside ordinary dispensing. To meet the demand imposed by hospital requirements, the pharmacy must be fully equipped. In addition to a general dis-

pensing practice, a dispensary has to be envisaged that is a combination of a small hospital pharmacy and a general pharmacy, and dealing with larger quantities than normal.

#### Dispensary Layout

The dispensary should be apart from the shop, and used solely for dispensing. The volume of dispensing carried out will dictate the size of the pharmacy. In Kelso, the authors had to equip a long, narrow dispensary. There are no unnecessary fittings on the walls, plain flush doors are fitted to all cupboards, and the walls are finished in high-gloss paint to assist in washing down. Lighting is overhead. For small areas such as the sterilisation room and aseptic laboratory, nothing equals vitriolite, a glass covering. Working continuously in a room with glossy white walls causes considerable eye-strain, and a more restful colour, such as a pale green, is desirable.

The arrangement of the dispensing benches is important, and thought given to this aspect of the fitting is well repaid in subsequent time saved. Where hospital requirements have to be met, consideration mut be given to the space required for small-scale manufacturing (of ointments, powders, etc.). A stock of large measures and flasks should be held. The preparation of ampoules is comparatively simple. It requires the following apparatus: -An autoclave or filter, depending upon the nature of the medicament; a clarifying filter; and an apparatus for filling ampoules (readily devised from a Buchner flask and burette). Labels required for ampoules are few, and it is not worth while purchasing them. The simplest way is to print them on the premises by means of a small Adana machine. Setting the type takes only a short time, printing a few hundred labels can be done rap'dly, and the total cost of the equipment is only a few pounds.

#### Aseptic Apparatus

Specialised apparatus is required for an aseptic dispensary:—An efficient still to produce pyrogen-free water complying with the B.P. tests for "Water for Injection"; a small autoclave (quite large enough for most purposes); and a hot-air oven (wherever possible an electric, and with thermostat) for the sterilisation of

glassware and syringes used in the production of penicillin injections; and an aseptic screen. The Perspex type is good but steams badly in cold weather and must be treated with anti-dim solution. Overhead lighting must be placed to prevent reflection from any type of screen having a sloping front. The remainder of the apparatus required can be pur-chased cheaply. It includes an ampoulesealing device, sintered glass funnels of various grades, a form of burette with reservoir for filling ampoules, and a Seitztype filter for sterilising thermolabile sub-The aseptic room is primarily stances. used for the preparation of pencillin injections. When the whole course of penicillin treatment exceeds fifteen c.c. in volume, and cannot be contained in the original vials, the injection is transferred to a sterilised vial, so that the complete course is in one container, thus eliminating any ambiguity of directions in the ward. Small stocks of transfusion and infusion solutions are kept ready and, if not used within three or four months of preparation, replaced by fresh supplies. All substances used for the preparation of injections are kept apart and used exclusively for the purpose and not for routine dispensing. Water for injection is put up in various sizes of ampoules from one to twenty c.c. Working single-handed, it takes about an hour to open, fill, and seal a batch of 100 ampoules. Labelling and finishing is tedious, but for the most part is carried out by younger members of the staff. various creams and ointments of penicillin are all prepared on the premises. Other preparations produced include sterile sulphonamide drugs, with and without penicillin. The hospitals rely on the authors' pharmacy to maintain adequate stocks of the necessary antitoxins, sera, etc., and stocks are also held of the blood-grouping sera; the typing is carried out prior to the blood being ordered from Edinburgh. A direct cross-check between patient and blood supplied is later carried out.

#### Clinical Laboratory

A clinical laboratory now forms an integral part of every large hospital in the country and, under the provisions of the National Health Service, arrangements can be made for setting up laboratories or providing laboratory facilities for all hospitals and general practitioners. The work embraces all the normal work on blood, urines, fæces, and cerebro-spinal fluid, with the addition of simple bacteriology and

hæmatology (not normally carried out in an exclusively biochemical laboratory).

Pictures indicating the layout of Mr. Thomas's premises at Kelso were shown and afterwards Mr. R. G. Drummond, Falkirk, and Mr. J. J. Skinner, Stirling, demonstrated with pictures how they had adapted their premises to meet the extra dispensing. Drs. Edkins and McCall congratulated the authors on their paper, Dr. McCall saying that the Department of Health was interested in Mr. Thomas's laboratory in view of the proposed new health centre at Sighthill, Edinburgh, Mr. H. H. Campbell moved and Mr. C. G. Drummond seconded a vote of thanks to the authors.

## LONDON MEDICAL OFFICER'S REPORT

THE County of London medical officer of health and school medical officer issued on December 31, 1949, his report on the year 1948. In it he surveys the administrative changes made necessary by the coming into operation of the National Health Service. To meet the situation, as a result of which the L.C.C. took over ninety-eight hospitals (70,000 beds and 32,000 staff), and the welfare, vaccination and similar services of the City of London (352 buildings and 4,843 staff), the council decided to de-centralise the health services so far as possible, and accordingly divided London into nine divisions, each with its own health committee, medical officer, nursing officer and administrative officer. At the end of the year the population of the area stood at 3.374,000. The birth rate declined to 17.9 per 1,000, and the death rate was 11.1. Although the figure was less than in 1947, deaths from cancer of the lung showed a continued increase (by 200 per cent, over fifteen years in males and 124 per cent. over fifteen years in females). A new low record of thirty-one per 1,000 births was reached in infant mortality.

The report refers to health centres as "one of the most discussed sections of the National Health Service Act." The Council's long-term plan is to provide comprehensive health centres including surgeries for general practitioners, in properly designed buildings sited to meet probable needs and housing developments. The plan divides the country into 162 health service areas, each containing approximately 20,000 people, but, as the report points out, 162 health centres will take many years to

provide.



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Next Session commences:

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No. 3646

#### The Cohen Committee

THE purpose of the Central Health Services Council, set out in Section 2 (I) of the National Health Service Act, 1946, is "to advise the Minister upon such general matters relating to the services provided under this Act. . . . " Recently, the Central and Scottish Health Services Councils jointly appointed a "committee on prescribing" (C. & D., 1949. II. 584), "to consider and report from time to time whether it is desirable and practicable to restrict or to discourage the prescribing by practitioners giving general medical services under the N.H.S. Acts of 1946 and 1947, of (a) drugs and medicines of doubtful value or of unethical character: (b) unnecessarily expensive brands of standard drugs." Although the duty of the Central Health Services Council is to act in an advisory capacity to the Minister, it has, in this instance, preferred to appoint a "committee on prescribing" to undertake the formidable tasks indicated above.

The terms of reference are extremely indefinite. They are, in fact, incapable of precise interpretation and opinion must vary considerably as to what drugs and medicines for the purpose of N.H.S. prescribing are (a) of doubtful value (b) of unethical character or (c) unnecessarily expensive. The Cohen Committee is not expensive. The Cohen Committee is not medicines, but to report "whether it is desirable and practicable to restrict or discourage their use in N.H.S. prescribing." The Committee's report must, however, substantially be based on its opinion as to

what types of products come under these three black-list categories. Obviously, it cannot decide whether the prescribing of certain medicaments under N.H.S. should be restricted or discouraged unless it has either been instructed or has itself decided beforehand what products are referred to.

It is therefore to be regretted that the composition of the Cohen Committee shows a preponderance of academic members. There is an almost complete absence of representatives of the general medical practitioners who are responsible for N.H.S. prescribing. Further, manufacturing and distributing interests of the pharmaceutical industry such as the Association of British Chemical Manufacturers, the Chemists Federation, the Association of British Pharmaceutical Industry, others appear to have been completely ignored. None of them has been given direct representation on the Cohen Committee. These organisations ought certainly to be invited to submit their expert views or to be allowed to give evidence before the Committee. They are entitled to know from what sources the Cohen Committee obtains the information on which it will base its recommendations.

In drawing the attention to the manufacturers and distributors of drugs and medicines to these matters we are not, unmindful of the fact that the Government has expressed its intention to cut the cost of the pharmaceutical services by £10 millions annually. Originally, it proposed to do so by imposing a fee of one shilling on each prescription, payable by N.H.S. patients. It has become all too evident. however, that the shilling per prescription charge, so far as its imposition and collection is concerned, is hedged about with so many difficulties and anomalies as to make it doubtful if it will be proceeded with, and certain that it would not bring in so large a total. The need for economising to the extent of £10 millions on the pharmaceutical services, however, remains. Is the basic principle of the health service -the absolute right of the doctor to prescribe whatever medicines he considers necessary in the best interests of his patients -to be sacrificed in order to achieve the proposed "economy"?

#### A Curtain-lifter on Narcotics Control

THE publication by the Department of Social Affairs of the United Nations of a "Bulletin on Narcotics" (No. 1 is dated October 1, 1949), lifts a corner of the curtain that has hitherto enshrouded the international control of narcotics. article, entitled "The International Control of Narcotic Drugs," outlines the tangible results of international legislation, and emphasises the ever-growing tendency towards unification of national laws and administrative regulations in all countries and territories. The article demonstrates clearly that it was social and humanitarian, and not economic or financial, reasons that led to the establishment of control in the world manufacture of narcotics. It is admitted that the problem of regulating the distribution of raw materials, postponed for the past forty years, still awaits solution. Nevertheless the "Official Section" illuminates the intensive efforts now in progress to combine into a single simplified convention the eight existing agreements. A Calendar of Meetings shows that an ad hoc Committee, composed of representatives of the principal opium-producing countries, was due to meet in Turkey on November 21. The meeting has taken place, and agreement reached (C. & D., 1949.II.848) to regulate opium production to legitimate requirements. The Bulletin gives details of the problems to be tackled by the various international organs operating under the ægis of the United The main article on "Opium Production throughout the World" reveals that China and the Far East remain the core of illicit production and consumption. In the wild mountainous areas where the borders of Burma, Thailand, Indo-China and China meet "there is enormous illicit traffic." The cutting-off of supplies will be the first step towards the suppression of opium smoking, but the clearing-up of extensive illicit poppy cultivation must await the end of civil war in the Far East. Another project disclosed in the Bulletin is the dispatch to Peru in September of a Commission of Inquiry to study the uses of coca leaf (especially for chewing and illicit cocaine production) with the ultimate object of applying controls at both national and international levels. The particulars of opium and coca production illustrate the interference brought about in Government control by war and civil disorder, but an example of sanctions to come is the banning of narcotics production in Japan, for violations of international narcotics law "before and during the war."

#### P.A.S. with Streptomycin

A PRELIMINARY report by the Tuberculosis Research Unit of the Medical Research Council (see p. 12) on the combined use of p-aminosalicylic acid (P.A.S.) and streptomycin in treating certain forms of pulmonary tuberculosis, is encouraging. The limited scope of the report, as has been stressed by the workers concerned. must be recognised and care taken to avoid raising "beyond measure" the hopes of tuberculous patients. A drug more lethal to the tubercle bacillus and less likely to give rise to resistance than either P.A.S. or streptomycin remains to be discovered, and the findings of the Unit, which coincide with the opinion held in America. should stimulate research in that direction.

It is notable that P.A.S., first observed to have anti - tubercular activity by Lehmann in Sweden in 1944, and certainly the most useful tuberculostatic substance so far synthesised, shows activity only against the tubercle organism. Indeed it appears. paradoxically enough, to be a growth factor for other micro-organisms. Hopes that derivatives of the compound would prove more useful have not been realised, though many thousands have been tested in Britain alone during the past five years. Among the compounds that may prove useful in future work are the thio semicarbazones which were first investigated by Domagk (pioneer of sulphonamide therapy) and are known to be useful in certain tuberculous skin infections. Moreover, in vivo tests of the salt of P.A.S. and streptomycin may show it to be less irritant than a mixture of the two drugs.

Time alone will show whether strains resistant to P.A.S. and streptomycin will emerge, but in the meantime there seems opportunity for pharmacists to devise forms of administering P.A.S. that will obviate the nausea, vomiting, diarrhœa, etc., it often causes. Enteric-coated products have not provided the answer, but coating the granules to disguise the taste of the drug, and adding sodium bicarbonate and a flavouring agent, are methods that have been used to advantage. A solution of the problem is especially to be sought in view of the possibility of adminstering the drug to ambulant patients. It is encouraging to note that a new factory for the production of P.A.S. is expected to be completed during 1950, by which time information may be available on the use of P.A.S. and streptomycin in early cases of the disease.

#### Home-Export Merger

THE passing of the Pharmaceutical Export Group (see p. 11) is no matter for mourning. In accepting merger with the Association of British Pharmaceutical Industry the Group has, in the words of its final chairman (Mr. R. Greenwood), accepted the scheme "unanimously willingly." The requirements of 1950 differ markedly from those of 1940, when the P.E.G. was one of many export groups established to meet the then vital need for an all-out export drive in order to finance the war effort. That purpose, it is true, lapsed when the United States introduced its Lend-Lease policy, but the groups lived on to discharge the almost equally important function of supplying essential medical needs to friends and allies cut off from their normal sources of supply. With the end of the war the original objects came once more into prominence, but with a difference that increased with time. Conditions of peace-time competition, with their new focus on problems of production, packaging research, labelling, and the rest, compelled a reassessment of purpose and functions. What was true of export groups in general was especially so in pharmacy. Difficulties of adaptation were heightened by the claims of the National Health Service, which, by common sense no less than Government order, was a first priority on the industry. Under it, home consumption of the industry's products increased by about 40 per cent. (against

estimates of 25 per cent.). In those circumstances it could easily have happened either that exports became a neglected "alsoran," or competed with domestic demands.

Instead, the industry proved itself able both to cope with heavy N.H.S. exactions and to put up its export turnover. More and more, however, it has realised (again in Mr. Greenwood's words) that "the days of the export manager are gone." Maintaining a hold in already penetrated territories, no less than making headway in the difficult dollar markets, entails researches into what to send, how to pack. what sort of label to put on and what legal punctilios must be complied with-researches which, though they may lead to different answers in different countries, are of precisely the kind for which elaborate research organisations have been evolved in the home field. What more sensible than to make use of them to increase exports? What more natural than to pool resources and share "know-how"? It is in that light that the merger must be regarded. Already market research information has been disseminated to members of the Association and combined and effective action has been taken to resist the registration in some overseas countries of names (such as penicillin and insulin) that are not trade marks in this country.

There is one main danger. To everyone with the least experience of the trade it will be obvious that the reception of British medicinal products abroad is inextricably bound up with their acceptance and prestige at home. With the State overwhelmingly the heaviest buyer in the domestic field, wholesale elimination of well-known brand- and product-names would stultify much of the work of research and export departments alike. Fortunately there is no sign at present that any such policy is being put into operation, but people of all shades of political opinion may hope that the enormous power the National Health Service gives the Government over the industry will be applied with wisdom and moderation. Given those, nothing but good can come out of the statesmanlike consolidation of "two branches much too closely co-ordinated to function separately."

### VITAMIN B,: ITS HISTORY AND ISOLATION

By Stanley Ball, Ph.D., B.Sc., A.R.I.C.

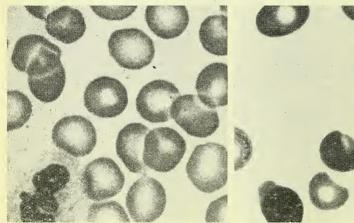
ERNICIOUS anæmia, first recognised as a clinical entity by Addison1 in 1849, and therefore sometimes known as Addisonian anæmia, is an insidious disease that has often reached an advanced state before medical advice has been sought. It usually occurs in middle and old age. The symptoms vary initially according to the degree of depletion involved, but the commonest include weakness, loss of endurance, shortness of breath, and pallor. The digestive system is almost always affected, and there may be loss of appetite, nausea, abdominal pain, vomiting, diarrhœa and sore tongue. Various neurological effects may occur also, the most serious being subacute combined degeneration of the spinal cord.

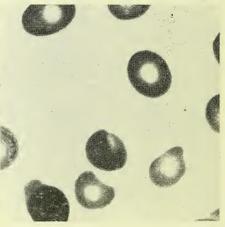
The blood of patients suffering from pernicious anæmia shows striking characteristics. The red-blood-cell count is usually much below normal, and there is great variation in size and shape of the cells. Unusually large cells (macro-

disease was of an infectious, toxic or neoplastic nature. In 1925, however, Elders2 struck by the similarity between tropical sprue and pernicious anæmia, suggested that the latter might be a deficiency disease. The following year Koessler, Maurer and Loughlin<sup>3</sup> formulated a vita-min deficiency theory and recommended kidney and liver therapy for pernicious and other anæmias. Whipple and Robscheit-Robbins4 in 1925 had already used liver diets to hasten the cure of dogs kept in a state of anæmia by severe bleeding, and Minot and Murphy<sup>5, 6</sup>, in 1926 and 1927, reported that pernicious anæmia patients showed striking improvements when their diets included ½-1 lb. of fresh liver per day.

#### Liver Injections Manufactured

It is inconvenient and unpleasant for human patients to eat large portions of liver every day, and the need was removed to some extent when Cohn and his co-





Illustrations showing photomicrographs of films of (left) normal blood and (right) blood of a pernicious anæmia patient in relapse

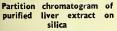
cytes) are prominent, and the hæmoglobin content of the individual cells is above normal, so that the disease is both a macrocytic and a hyperchromic anæmia.

#### Early Efforts

Up to 1926 various unsuccessful attempts had been made to cure pernicious anæmia, based on the hypothesis that the workers7 in 1927 showed that the antianæmia substances could be extracted from liver with hot water. This work was extended, and a purified active fraction was next separated from much inactive material in the crude aqueous extract by fractional precipitation with ethyl alcohol. Large-scale investigations of the extraction of liver were then initiated by many groups of workers. That was the true beginning of the modern industrial preparation of liver extract for injection.

Meanwhile, Castle and co-workers at Harvard University Medical School, who were studying the physiology of the stomach, found that pronounced improvements occurred when normal gastric juice

and beefsteak were fed together pernicious anæmia patients, no such improvements OCcuring when the FRACTION materials were fed separately. Castle called the unknown factor in beefsteak the extrinsic factor and YELLOW that of gastric juice the intrinsic FRACTION factor, emphasising that both factors were required in adequate amounts to prevent anæmia. For a review of the work on this subject the reader is referred to Davidson and



Leitch<sup>8</sup>. The procedures adopted by

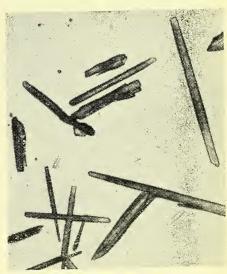
various workers for fractionating liver extract varied considerably. Cohn's technique was to use precipitating agents, e.g., ethyl alcohol and basic lead acetate, and this procedure was followed by many other Dakin, Ungley and West<sup>9</sup> in 1936 got much improved results by extending the range of precipitating reagents and applying electrophoresis to their extracts. In Norway, Laland and Klem<sup>10</sup> in 1936 introduced a different method of attack-adsorption on charcoal. When a crude liver extract is passed through charcoal, the active factor is strongly adsorbed and this allows "impurities" to be washed away. If the charcoal is then eluted with phenol, the anti-pernicious-anæmia material is recovered at a higher degree of purity than before. Using this and other fractionation procedures the Norwegian workers concentrated active material from 100 gm. of liver into less than 1 mgm. of extract.

To summarise the first twenty years of research into liver extracts, it can be said that many conflicting reports of the pro-

and nature of anti-perniciousperties anæmia fractions were published, the confusion being due to the complex and impure nature of the concentrates. Considerable progress was made, for the material to be taken daily by a patient had been reduced in bulk more than 400,000 times. The problem was, however, in need of an advance of a fundamental nature.

#### Vitamin B<sub>12</sub> Isolated

The stimulus came with the first isolation of the pure anti-pernicious-anæmia material (now named vitamin B<sub>12</sub>). often happens in like circumstances, the problem was solved at the same time by independent teams working in different parts of the world. In the laboratories of Merck & Co., in the United States, Rickes, Brink, Koniuszy, Wood and Folkers<sup>11</sup>, in 1948, isolated pure crystalline material from ox-liver, while almost simultaneously in Great Britain, Lester Smith and Parker11 of Glaxo Laboratories, Ltd., also prepared



Crystalline vitamin B<sub>12</sub> (enlarged)

the pure factor from ox-liver. The British workers had only the clinical test of human patients as their means of assaying the active factor, whereas the American workers were helped considerably by a microbiological assay technique.

Details of the American workers' procedure for the isolation of vitamin B12 are still unpublished: those of the British team were, in the main, physical, chemical

treatments having proved unsatisfactory. Adsorption chromatography on charcoal, alumina and silica was used, especially partition chromatography with moist silica or starch as the support, and butanol or other solvents as the developing agent. Peptide impurities persisted in the purified fractions, and these could only be removed with proteolysing enzymes. The final crystallisation steps were carried out from aqueous acetone. More recently, Ellis, Petrow and Snook<sup>13</sup>, of The British Drug Houses, Ltd., have also crystallised vitamin B<sub>12</sub> which was extracted by n-butanol from aqueous solutions in the presence of ammonium sulphate. Chromatography was used only in the later stages of the process, the adsorbent being aluminium silicate or bentonite. Their crystallisation also was done from aqueous acetone.

The magnitude of the task of isolating vitamin B12 may be judged by the fact that there is only about one part of the material in one million parts of fresh liver. An extraction procedure of the kind described is so complex that appreciable losses must occur, so that it may be estimated that I ton of liver would perhaps yield no more than 20 mgm, of the vitamin, However, the achievement has stimulated workers in this field and considerable progress has been made since the isolation was first announced. These developments will be discussed in a second article.

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#### RECENT RESEARCH

Adrenocorticotropic Activity Test.— Spies and colleague ("Lancet," 1949.II. 890) describe a screening test for compounds possessing adrenocorticotropic hormone activity based on their ability to reduce the absolute number of circulating eosinophils in cases of eosinophilia.

Action of Antimalarials. - Hammick, in a paper read to the Chemical Society in London on December 15, 1949, Juggests that the basic dissociation constants and reduction potentials of a series of acridine antimalarials examined bear no definite relation to the relative antimalarial activities of the drugs. The reduction potentials of these compounds were found to vary with their power of inhibiting the enzyme system, diamine oxidase, present in in vivo cultures of the malaria parasite. The physicochemical properties that might influence the permeability and distribution of the drugs in organic systems (their lipoid partition coefficients, surface activities, and protein affinities) were found to be of small value with the more active antimalarials, indicating that concentration of the drug in the aqueous phases of the hostparasite system is conducive to antimalarial activity.

Multiplication of Animal Viruses .- Reviewing the multiplication of animal viruses Bauer ("Nature," 1949.II.767) suggests that a search should be made for further examples of the non-infectious phase of virus and to establish whether that phase can be isolated from infected tissues in soluble form. The fact that viruses of the psittacosis group respond to penicillin and sulphonamides suggests that the chemotherapy of viruses as a whole is not an insoluble problem.

Estimation of Hetrazan.—A method of estimating the quantity of Hetrazan (l-diethycarbamyl-4-methyl piperazine hydrochloride) in body fluids is described by Lubran ("Nature," 1949.II.1135). The fluid is made alkaline with 10 N sodium hydroxide and extracted with ethylene di-chloride. The ethylene dichloride layer is separated, clarified and shaken with 0.05 per cent. bromothymol blue solution. Part of the bromothymol blue combines with the Hetrazan base and dissolves in the ethylene dichloride, giving a yellow colour the intensity of which can be compared with a standard solution of the compound that has been taken through the same procedure.

#### PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

A MEETING of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on December o, the president (Mr. P. R. W. Shinner) in the chair. Also present were Messrs. H. W. Gamble (vice-president), W. H. Boyd (treasurer), H. P. Crossin, H. F. Moore, J. Irwin, J. McGregor, H. H. Cowzer, W. P. Ewart, Professor E. B. C. Mayrs, and Professor J. Small. The secretary (Mr. W. Gorman) was in attendance. Apologies for absence were received from Messrs. F. R. Moore, J. McDowell, J. Abernethy and S. E. Campbell.

#### Communications from Ministry

A payable order was received from the Ministry of Home Affairs representing the suspense account of licence fees for the period March to November, 1949. A letter received from the Ministry on the subject of repeat prescriptions, stated that it was not competent for a Government department to interpret an Act of Parliament or regulations, but, as the intention of the relevant regulation was to make definite the number of times and the intervals at which a prescription could be dispensed, it would appear that a direction such as "Repeat" or "To Be Repeated" did not comply with the regulation. THE SECRE-TARY pointed out that the rule now was that a prescription could be dispensed at intervals of not less than three days where a direction was given by the doctor that it was to be dispensed a stated number of times; and where it contained a direction that the prescription was to be dispensed at stated intervals, but no direction as to the number of times, it should not be dispensed more than three times. It was for doctors to comply with the regulation. MR. IRWIN considered that the Ministry left the chemist "in the air." After further discussion it was decided, on the motion of Mr. H. W. Gamble, that the matter should be raised again when the Regulations were being revised.

In another letter, the Ministry drew attention to the present machinery for making alterations in the Poisons Schedule of the Medicines, Pharmacy and Poisons Act (Northern Ireland), 1945, and to the provisions of the Act for making poisons regulations. The Minister had had under consideration two recommendations on the same subject by the Council and the

Medical Faculty of Queen's University which were not at one on the matter, and the Ministry was faced with the problem of deciding between the two bodies. The steadily increasing complexity of modern poisons law was such that the Minister felt a standing advisory body (similar to the Poisons Board in England) to which problems could be submitted for expert advice, was necessary. He proposed to introduce legislation for the establishment of a Poisons Board in Northern Ireland and the opportunity would also be taken to introduce any amendments in the existing poisons law which were thought desirable. The letter invited the views of the Council on the proposal, together with suggestions for the proposed new Act. THE PRESIDENT said the position was that any recommendation from the Council had to be supported by the medical faculty. It was now a question whether control should pass out of the hands of the Council. It was decided that, pending a discussion with representatives of the medical faculty, inquiries should be made into the working of the Poisons Board in England.

Certificates of apprenticeship were granted to D. G. Bateman, Lurgan; J. M. Walls, Coalisland; H. H. Johnston, Ballygawley; Florence Adair and R. J. White, Belfast.

A report was received of a joint meeting of the Law and Education Committees on the regulations governing the Society's qualifying examinations. The President pointed out that a number of students had attended the meeting to give their views on the courses and the operation of apprenticeship. Several proposals had been considered but no recommendations were put forward. It was decided that further consideration should be given to the matter by the two Committees, and that a draft of alterations could be worked out for examination by the Council.

# A PHARMACIST'S ANTHOLOGY

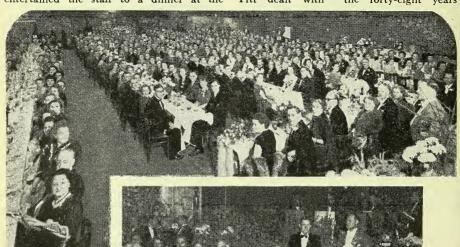
'Doctor once dubbed—what ignorance shell baulk The merch triumphant? Diagnore the cout As Cholic, and prescribe it cheese for chalk—'No matter! All's one: cure shall come about And win thee wealth—fees paid with such a roar Of thanks and praise alike from lord and lout 'As never stunned man's ears on earth before.

From "Doctor —" by Robert Browning.

#### **BICENTENARY DINNER AND PRESENTATIONS**

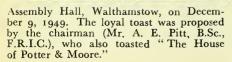
CELEBRATING the bicentenary of Potter & Moore, Ltd., the directors of the company entertained the staff to a dinner at the

After a brief reference to the history of the company as recorded in the menu, Mr. Pitt dealt with "the forty-eight years



Above: Scene at dinner At right: Looking towards the head table. Below left, Mrs. Lambert receives gold watch. Below, right, Mr. Ives (the oldest employee) makes presentation to chairman.







during which it has been my privilege to be associated with Potter & Moore, to chronicle the successes which have been achieved, and more especially to recall to mind those who have carried the torch." He said he had first joined W. J. Bush & Co. as their research chemist in 1901. He distinctly remembered Miss Summer (now Mrs. Lambert), who was then second in command in the work room. Anything that required manual dexterity had always been entrusted to her care. Early in 1914 Mr. William Gill, until then manager of the perfumery department, had died and the department had come under the speaker's direction. The directors of W. J. Bush & Co., Ltd., took a keen interest in their perfumery department and were very appreciative of any of its successes. They were encouraged in 1928 to incorporate a new company, Potter & Moore, Ltd., to take care of all perfumery activities. original board of directors had consisted of Messrs Eric Bush, Higgins, Slann, Hurry, and himself, with Mr. McIntyre as secretary. Mr. Eric Bush and he had the distinction of being the sole remaining directors of the original board, to which Messrs. McIntyre, Clark, Madden and Gedge had later been appointed.

When the long service list was being compiled, he had been greatly struck by the fact that no fewer than thirty-three of the staff had given twenty-one years' or more service to the company. Three outstanding cases of long-service present were Messrs. Edward Ives (sixty-one years) and George Pask (fifty-two years) and Mrs. Minnie Lambert (fifty years). Mr. Pitt read telegrams and cables of congratulation from subsidiary companies. It was manifest, he said, that the business founded in Mitcham in 1749 had attained world-wide

recognition.

#### Presentations

Mrs. Pitt then presented to Mrs. M. Lambert (who, apart from completing fifty years' service with the company, had never been late) a gold wrist watch in silver casket; and to each of thirty-three other long-service staff (the periods ranging from twenty-one to sixty-one years' service) a silver sweet-stand engraved with the inscription "1749-1949: Presented to . . . . by Potter & Moore, Ltd., to commemorate the bicentenary of the company and in appreciation of . . , years of loyal service. December 1949."

Mr. Eric Bush (a director) then addressed the company. The success of Potter & Moore, he said, was the result of the work of every one of the men and women, boys and girls, who were associated with it. But a building had to have a cornerstone, and that cornerstone was represented by their chief and chairman, Mr. Pitt. He asked Mrs. Pitt to make yet another gift-to her husband. Mr. Pitt had been their chairman for twenty-one years, and to mark the occasion the directors and staff had got together to make a presentation to him. The gift (an inkstand) was inscribed with the following words:—"Presented to Arthur E. Pitt Esq., B.Sc., F.R.I.C., by his colleagues and staff as a token of their regard and to commemorate twenty-one years as chairman of Potter & Moore, Ltd., 1928-1949."

#### **HEALTH MINISTRY PROBLEMS**

In a recent address to the North London Pharmaceutical Association Dr. H. Davis (chief pharmacist, Ministry of Health) dealt with some of the pharmaceutical problems of the Ministry of Health. He said that one of the chief problems was the increase in the use of proprietary medicines from 5 per cent. under National Health Insurance to 15 per cent. today (20 per cent. in Scotland). The matter required serious thought by all pharmacists. whole field of prescribing was now under examination by the Cohen committee, and its results would probably affect pharmacy for many years to come. The country depended upon the pharmaceutical houses for much research, which might have to be curtailed if the scale of their "bread and butter" lines was restricted, but the products of numerous smaller firms who merely mixed B.P. or B.P.C. drugs under a proprietary name were in a different category. Prescription pricing was being examined by a working party.

Dr. Davis believed it had been a wise decision to leave the preparation of the National Formulary to the professions but thought that the purist attitude taken by the compilers was playing into the hands of the manufacturers with their more elegant preparations and short descriptive titles. He appealed to pharmacists to make themselves familiar with the newer types of galenicals and suggested that a knowledge of modern ointment bases was of greater value today than ability to prepare pills and plasters. Replying to questions about the periodic shortage of dressings Dr. Davis said there were many contributory factors, but often a rumour of shortage led to an unnecessary stocking up. A vote of thanks to Dr. Davis was proposed

by Mr. H. Noble.

#### A DUBLIN DRUGGIST LOOKS BACK

In 1910 I was a chemist's assistant holding the (Irish) Registered Druggist qualification. Conditions in business at that time were hard, with long hours and small pay. Work started at 9 a.m. There was an hour off for dinner and another for tea, and one finished up around midnight, then to trudge to "digs." There was no weekly half-holiday, and an assistant worked the whole of every second Sunday as well as on every bank holiday.

#### Change of Employment

During a spell as locum, I answered an advertisement: "Registered Druggist wanted at once; apply, giving usual particulars." To my surprise, I attracted a reply. A druggist had died suddenly and his widow wanted a manager. There was an interview and I secured the job, eager for the improved hours and wages. I was to open the shop at 9 a.m., take time off for dinner from I to 2 p.m., and close at 7 p.m. (10 p.m. on Saturdays); there was no Sunday duty and all bank holidays were free.

On the appointed day I was waiting at the shop door at 8.45 a.m. At 9 o'clock there was no sign of my new "boss." Other shops were opening up and street dealers were getting ready their stalls. Here was my first experience of the musical Dublin accent - the real thing. It "got" me, and in the years to follow I was to learn much from the dealers' honest, if rough, struggle for existence. Paddy, the messenger boy, arrived at 9.20. chatted, and shortly afterwards my new employer arrived, Lancashire accent an' all. She opened and gave me the key, instructing me to open in future when I arrived. Paddy took down the shutters. packed them away, swent out, and the routine of the day commenced.

The shop was a typical druggist's business of that period, with its imposing array of bottles and drawers and blue and yellow carboys on top of the window enclosure. A brass rail ran along the top of the serving counter, and an oil and colour department was in a room off the shop. We made huge quantities of varnish stains (mahogany, light oak, dark oak, satin-wood). Our French polish (secret ingredients in a solution of shellac in spirit) became famous

throughout the district.

After a few months affairs began to go very smoothly. Instead of dusting bottles,

waiting for prescriptions to come in and

selling "patent" medicines at just over cost price, we were kept busy selling or weighing up stock all the time. There wasn't a dull moment from opening to closing time. In the "heavies" department were stocked lamp and colza oils, washing soda, whiting, borax, fireclay, cement, disinfectants, candles, toilet and bar soaps and numerous other household requirements.

wholesalers' travellers seldom Local failed in their weekly calls, and the quarterly visits of the B.D.H. representative were specially looked forward to. famous person (Mr. Birney) had a unique experience. When in Dublin on one of his visits during the first World War (I was in Mesopotamia at the time) he missed his appointment with Dr. Mitchell (of Hamilton, Long & Co., Ltd.). Fearing that the doctor might think he had been slighted, Mr. Birney decided to remain in Dublin for the night, to call on the following day, tender his apologies, and take the order. That night the "Leinster," on which he would otherwise have been a passenger, was torpedoed and sunk by a German submarine!

In time our business became widely known for quality and value, and people from all walks of life became our customers. We often wondered how most of the "toffs" were able to stomach our roughand-ready methods.

#### Change of Proprietor

Time marches on. Without noticing it, we were growing old. In the summer of 1942, the owner died, aged seventy-six, and was buried in her husband's grave in Mount Jerome. When finally, in the autumn of 1946, everything was squared up, the business was sold, the new proprietor being a young, energetic, up-to-date chemist. Recently, when passing, I saw a new modern shop front at the premises, and a window from which every vestige of the old firm had disappeared.—J. K.

A Russian "Penicillin."—In a letter to "Nature," Stodda (Northern Regional Research Laboratory, Peoria, Illinois, U.S.) points out that in 1046, seven years after Fleming's first use of the name penicillin, Palei and Osuicheva (in a Leningrad publication) applied the same name to an isolate from Penicillin luteum purpurogenum, a mould unfavourable to the production of citric acid by Aspergillus niger.

#### INSTRUMENTS AND APPARATUS

Chemical Laboratory Apparatus. — A 28-page illustrated price list issued by Vicsons, Ltd., 148 Pinner Road, Harrow, Middlesex, concentrates on apparatus most commonly in demand, and items that can be supplied from stock. It takes in glass and porcelain beakers, dishes, etc., reagent containers, burners, crucibles, flasks, balances, and many other items.

Power Emulsifier Returns. — The Empire power emulsifier, introduced just prior to the 1939-45 war by British Emulsifiers, Ltd., 12 Greek Street, London, W.1, is again available. The makers record that two pre-war machines are known to have been, and to be, in constant use since they were installed, one of them in the dispen-The Empire sary of a London hospital. emulsifier is fitted with a 3 h.p. motor with automatic overload switch. The patented emulsifying unit has an adjustable pressure up to 3,000 lb. per sq. in., and an automatic agitator keeps the mix thoroughly stirred. The bowl has a capacity of 1 gall. and an output of up to 15 gall, per hr.

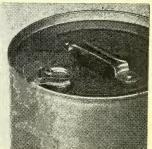
Refraction and Spectrophotometry.—Hilger & Watts, Ltd., 98 St. Pancras Way, London, N.W.I, claim that few physical measurements can be so quickly made as measuring refractive index with Hilger Abbe refractometer. Simultaneously it gives a measurement of a second physical property: dispersion. One or two drops only of liquid are required, and so thin is the film of liquid employed that turbid and highly-coloured liquids (which would absorb too much light in other forms of refractometer) can be investigated. Refractive indices from 1.3°° to 1.7°° may be measured by the instrument, and it can be read to 0.0001 and is accurate to 0.0002. Solids as

well as liquids may be measured. A complete description of the principles, applications, treatment, adjustment, and use of the instrument, is given in the company's booklet, "Instructions for the use of the Abbe Refractometer" (included, gratis, with each instrument). Messrs. Hilger have also produced in their Uvispek photoelectric spectrophotometer for visible and ultra-violet wave-lengths an apparatus designed to meet the call for a non-recording instrument suitable for use in industrial, research and academic laboratories. Robust in construction, the spectrophotometer is also simple to maintain; it is completely a.c.-mains operated. Alternative light sources mounted in a single lamphouse are instantly interchanged by movement of a lever. For accuracy of reading, the measuring scale is divided into five separate but overlapping ranges.

Potentiometric pH Meter. — Until recently the potentiometric type of ph meter, notwithstanding its high degree of accuracy, suffered from the disadvantage that at least six controls required adjustment during the course of measurements. The General Electric Co., Ltd., Kingsway, London, W.C.2, has introduced a meter in which the number of controls needing adjustment during use has been reduced to three, without sacrifice of accuracy and robust construction. The new instruments incorporate a patented circuit and are calibrated over the range pH 0-14 units with an accuracy of 0.01 ph unit for the portable and 0.05 pH unit for the bench models. Indications are read through an aperture in the dial panel as a straight line of figures. Complete specification and details may be obtained from the company.







CLEAN-POURING AND PILFER-PROOF DRUMS.—Retractable nozzle withdrawn (left) and in use (centre) and patented pilfer-proof closure and pre-formed spout in steel drums manufactured by Reads, Ltd., Orrell Lane, Walton, Liverpool, 9. The advantage of these features in cleanliness and safety will be obvious.

#### TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, Jan. 4

BUSINESS in PHARMACEUTICAL and FINE Chemicals, as is usual for the last week of the year, has been small and confined to pressing requirements of home-trade consumers. Price changes have been confined to an increase of a halfpenny per lb. in the rates for Chloroform, a rise of threepence per lb. in Magnesium oxide (Heavy), and of 35s. per ton in Zinc OXIDE. It is learned that makers are considering the raising of prices of a number of important products in the near future, owing to higher costs of production and raw materials. A brisk export inquiry is reported for EMETINE. Since Christmas, trading in CRUDE DRUGS has been on a restricted scale with the markets, generally, steady under the influence of end-of-year stocktaking. Prime Cape Aloes is understood to be in short supply at origin and the spot market is inclined to be firmer. Sumatra Benzoin is short on the spot and higher prices are reported as being paid fight the best almostly block. Cannot be the stock of the spot almostly block. paid for the best almondy block. CANADA BALSAM is a firmer market. Buchu (short round leaves) is slightly easier. Refined CAMPHOR POWDER and B.B. grades have been marked down sixpence per lb. Cocil-LANA BARK is in good request, but there is little available. A good export business was done prior to the holiday in the lower grades of Dragons blood and spot supplies have been greatly reduced. Ergot is dearer on the spot and to come in. There have been arrivals of Colombian IPECACUANHA. Mexican JALAP is in short supply at origin and the primary market is tending firmer. Supplies of sound Chinese Rhubarb are now coming forward. SENEGA is in little demand and holders are asking rather lower prices. Wet-crop Tinnevelly SENNA LEAVES are now being offered and spot prices are fractionally higher for No. 3's; new-crop Tinnevelly Pods are also slightly dearer. Although the markets for Essential Oils continue quiet there are few signs of any lowering of prices. A number of oils remain in short supply with firmer markets at origin. Chinese Anise oil is dearer on the spot while substantially higher prices have been asked and paid for West Indian Lime. Bois de rose, Bourbon Geranium, Pal-MAROSA and PATCHOULI are all dearer on the spot. In Aromatic Chemicals, a very good request is being received for ANIS-ALDEHYDE,

ALDEHYDE. Imports into the United Kingdom in November 1949 were valued as follows:—Cinchona bark, £11,259 (November, 1948, £12,008); ipecacuanha and other roots, £15,718 (£26,082); menthol £9,097 (£18,859); natural essential oils, £233,986 (£68,999).

U.S. Drug and Chemical Report

New York, December 30, 1949 A FEW days prior to Christmas lower prices were announced for CREAM OF TAR-TAR of domestic manufacture, as a result of competition from imported material or competition from imported material which is still about five cents per lb. (including duty) below the price of the American product. The highlight, however, of the Fine Chemicals market has been the lowering of Streptomycin prices by approximately 20 per cent, for the home trade; export prices are expected to follow suit. DIGITOXIN also has been follow suit. marked down—from \$15 to as low as \$9.10 per gm. The decline is attributable to offerings of foreign material below U.S. prices. Demand for photographic chemicals is brisk; Hydroquinone, in particular, is attracting considerable attention with prices holding steady to firm. The current price of \$10.70 per lb, for MENTHOL may be shaded in some quarters because of a desire to reduce holdings. In CRUDE DRUGS, there has been a good volume of inquiry for RHUBARB, with the market nominal and few prospects of replacements in the near future. Senega is expected to strengthen if there is any increase in demand. Ergor is nominal. Business in Essential Oils has been small with none of the usual year-end selling pressure. In Synthetics and Isolates, a reduction is noted in Benzyl benzoate, which is now quoted at 80 cents per lb. against 85 cents previously. Anethol and p-Anisaldehyde have been in good demand.

#### Exchange Rates on London

Rates at the opening on Wednesday morning were:—

Centre	Quoted	Rate
	Piastres to £	971-973
	Florins to £	10.63—10.65
*Bombay	Shillings to	
D 1	rupee	1/515-1/618
	Francs to £	139.90-140.10
	Kroner to £	19.32—19.36
Dutch East Indies Dutch West Indies		10.63—10.65
	Shillings to \$	5.271-5.29
		$1/2\frac{13}{16}$ $-1/2\frac{29}{32}$
	£I to £ Shillings to	993-1001
"Karaciii	rupee	2/137-2/115
Lisbon	Escudos to £	80.35—80.65
	Peso to £	In suspense
	Dollars to £	3.073-3.081
	Dollars to £	$2.79\frac{7}{8}$ $-2.80\frac{1}{8}$
	Kroner to £	19.98-20.02
	Francs to £	979-981
*Singapore	Shillings to \$	$2/4\frac{1}{32}$ $-2/4\frac{5}{32}$
	Kronor to £	14.47-14.50
	Rials to £	89.40-91.00
Zurich	Francs to £	12.23-12.26

\* Free market rates; remainder Bank of England fixed rates.

#### Pharmaceutical Chemicals

AMIDOPYRIN.—French material (B.P.) is offered at from 34s. to 35s. per lb.

AMPHETAMINE. — Quotations for Base and Sulphate are from 115s, to 120s, per lb. d-Amphetamine is 26s, per oz.

ASCORBIC ACID. — In 1-kilo lots, quotations are from £25 per kilo; 500-gm., from £12 15s.

ASPIRIN.—Home-trade price for POWDER is 3s. 5½d. per lb. in 10-cwt. lots and 3s. 7d. per lb. in 1-cwt. lots. Scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. are: 4s. 6d. (1-lb. containers); 4s. 5d. (2-lb.); 4s. 4½d. (4-lb.); 4s. 3½d. (7-lb.); 4s. 3d. (14-lb.); 4s. 2d. (28-lb.). Net one month. Rates per 1,000 for bulk supplies of TABLETS are: Under 5,000, 3s. 9d.; 5,000 and over, 3s. 7d.; 10,000, 3s. 6d.; 25,000, 3s. 4d.; 50,000, 3s. 3d.; 100,000, 3s. 2d.; 250,000, 3s. 1½d.; 500,000, 3s. 1d.; 1,000,000, 3s.

Barium sulphate (x-ray). — Prices are unchanged, 1 cwt., 1s. 3d. per lb. Scheduled rates per lb. (containers in brackets), for quantities between 28 lb. and 1 cwt. are as follows: 1s. 8d. (1-lb.), 1s. 7d. (2-lb.), 1s. 6½d. (4-lb.), 1s. 5½d. (7-lb.), 1s. 5d. (14-lb.), 1s. 4d. (28-lb.).

BENZOCAINE. — Home-trade prices are unchanged at from 50s. to 52s. per lb.

BISMUTH SALTS. — Makers' prices are as follows:—Carbonate.—1-cwt. lots, 17s. 11d. (28-lb. containers); 18s. 0½d. (7-lb.); 18s. 3d. (1-lb.); smaller quantities are scheduled up to 21s. 4½d, per lb., according to pack. CITRATE is 3s. 7d. per lb.; SALICYLATE, 2s. 9d.; SUBNITRATE, 2s. 6d.; and SUBGALLATE, 6d. less than carbonate.

BORAX. — Prices per ton for pharmacopæial quality are as follows: Granular, £45; crystal. £47; powder, £48; powder, extra-fine, £49, net, delivered.

Boric acid.—Prices per ton for pharmaconeial quality are as follows: Granular, £76 10s.; crystal. £82: powder, £79 10s.; extra-fine, £81 10s., net, delivered.

CAFFEINE.—Makers' prices are as follows: Alkaloid, B.P., is from 36s, 6d, (1-cwt, lots) to 38s, 6d, (7-lh.) per lb.; Alkaloid, anin'drous, from 38s, to 40s.; CITRATE, B.P.C., 21s, to 23s.; Sodium Benzoate, B.P., 23s, to 25s, Sodium salicylate, B.P.C., 24s, to 26s.; Sodium Iodide, 30s, to 32s.

CALCIUM GLUCONATE.—Quantities of unwards from 3 cwt. are quoted at 3s, 6d, per lb.; 1 cwt.-2 cwt., 3s, 7d, per lb.; smaller quantities up to 3s, 10d, per lb.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 4s. per lb. in 1-cwt, drums.

Chloroform.—A fractional increase in makers' prices from January 1, 1-cwt, lots in winchesters are now 3s, 2½d, per lb.; 56-lb., 3s, 3d, In drums, prices are 3s, 1d, and 3s, 1½d, per lb., respectively.

CITRATES. — Prices are as follows:—Potassium, 5-cwt. lots, 2s. 10½d. per lb.; 1 cwt., 2s. 11½d.; scheduled prices for quantities of 28 lb. to 1 cwt. are (containers in brackets): 3s. 9½d. (1-lb.); 3s. 8d. (4-lb.); 3s. 7d. (7-lb.); 3s. 6½d. (14-lb.); 3s. 5½d. (28-lb.); IRON AND AMMONIUM CITRATE, B.P., 7d. per lb. more; Sodium, B.P., 3d. per lb. less; powder, 1d. per lb. extra.

ETHER. — Current rates for the home trade are as follows: Solvent, B.P., 1 ton, 1s. 10½d.; 10 cwt., 1s. 11½d.; 5 cwt., 2s. 0½d.; smaller quantities, from 2s. 1½d. to 2s. 6d. per lb. Anasthetic, B.P., 1 ton, 2s. 5½d.; 10 cwt., 2s. 6½d.; 5 cwt., 2s. 7½d.; 1 cwt., 2s. 8d.; smaller quantities from 2s. 9½d. per lb. Technical is ½d. per lb. less than solvent ether. The foregoing prices are for ethers packed in winchesters; in carboys or drums prices are 1½d. per lb. less.

GLYCEROPHOSPHATES. — Makers' list prices per lb. are as follows: CALCIUM SOLUBLE, 10s. 6d.; IRON SCALE, 11s. 9d.; ACID, 20 per cent. (B.P.C.), 8s. 3d. MAGNESIUM (INSOLUBLE), 10s.; MAGNESIUM (SOLUBLE), 19s. 3d.; MANGANESE, 24s. 3d.; POTASSIUM, 50 per cent., 5s. 11d.; 75 per cent., 7s. 9d.; SODIUM, 10s. 9d.; 50 per cent., 4s. 7d.; 75 per cent., 5s. 8d. Quantities of 7 lb., 6d. per lb. less than above rates; other quantities in proportion.

METHYL SALICYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt. in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices are net.

NICOTINIC ACID.—Quotations are about 40s. to 42s. per lb., as to quantity.

POTASSIUM PERMANGANATE.—Home-trade rates, for B.P. grade (in 1-cwt. drums). are: 1 cwt., 1s. 7\frac{1}{2}d. per lb.; 5 cwt., 1s. 6\frac{1}{2}d.; 1 ton, 1s. 6d. Technical (in 1-cwt. drums) is 163s. per cwt.; 5 cwt., 154s. 6d. per cwt.; 1 ton, 149s. 6d. per cwt. Prices are net; carriage paid nearest railway station; drums extra and returnable.

QUININE.—Steady. Makers' rates (per oz.) to home-trade distributors are given below; additional charges must be added for repacking, etc. Alkaloid, from 5s. to 5s. 6d.; Acetylsalicylate, 6s. 3d. to 6s. 9d.; Bisulphate, 3s. 7d. to 4s. 1d. Dihydrobromide and Dihydrochloride, 4s. 11d. to 5s. 5d.; Formate, 5s. 9d. to 6s. 3d.; Glycerophosphate, and Phosphate. 5s. 5d. to 5s. 11d.; Hydrobromide and Hydrochloride, 4s. 6d. to 5s.; Salicylate, 4s. 8d. to 5s. 2d.; Sulphate, 4s. 6d.; Quinine and urea hydrochloride is quoted from 4s. 10d. to 5s. 4d.

SODIUM ALGINATE.—Current rates per lb. are unchanged as follows: 7-lb. lots. 7s. 3d.; 28-lb., 7s.; 1-cwt., 6s. 6d.

ZINC OXIDE.—An increase of 35s. per ton occurred on December 30 making B.P. grade £95 per ton in minimum 2-ton lots.

#### Crude Drugs

Aconite.—Indian is quoted at 260s. per cwt., spot; napellus is 4s. per lb., spot, duty paid.

AGAR.—Kobé No. 1 strip is quoted at 16s. per lb., duty paid; in bond, 15s. No. 2 is 14s. 9d. per lb., duty paid. Korean, to come forward, is 12s. 6d. per lb., duty paid.

Aloes. — Cape is offered at about 117s. 6d. per cwt., spot; Curação is from 230s, per cwt., spot,

ANISE (STAR).—Spot quotations are at 145s. per cwt., duty paid; in bond, 137s, 6d.

Areca nuts. — Steady. Spot offers are from 57s. 6d. to 60s. per cwt.

Balsams. — Canada is firmer on the spot at from 17s. to 18s. per lb. Pará Copaiba is 8s. per lb., duty paid; 7s. 6d. in bond. San Salvador Peru is from 6s. to 6s 6d. per lb., duty paid. Tolu continues scarce and 18s. per lb. is wanted for any stocks available on the spot.

BLACK HAW.—Root bark is offering at 6s. per lb., duty paid, spot London; tree bark, 3s. 3d., duty paid.

Buchu.—A slightly easier market. Short rounds, on the spot, are from 3s. 4d. to 3s. 5d. per lb.; shipment from 3s. 3d., c.i.f.

CALUMBA.—Natural unwashed sorts are quoted at from 75s. to 80s. per cwt., spot.

CAMPHOR. — Chinese tablets (\frac{1}{4}\cdot \text{-}\text{oz.}) are quoted at from 6s, 6d, to 7s, per lb., duty paid; refined natural powder (B.P.). is 5s, per lb., duty paid, spot London, and B.B., 4s, 6d., duty paid. English sublimed flowers (B.P.) are 5s, 9d., and English synthetic, 5s, 6d. per lb., in 1-cwt, lots.

Cascara sagrada.—Quiet. 1949 is quoted at 275s. per cwt., duty paid, and 1947 at 280s., duty paid.

Dragons blood.—Steady. Singapore reboiled No. 1, £60 per cwt., spot; No. 2, business done at £47 10s. per cwt.; No. 3, nominal, spot.

Ergor. — Little available on the spot and 27s, is being asked for Portuguese reconditioned material; from origin, from 25s, to 27s, 6d. per lb., c.i.f.

GINGER.—African on the spot is offered at 350s. per cwt.: new-crop. February-April shipment, 250s., c.i.f., nominal. Jamaican on the spot is 355s. per cwt.; new-crop, January-March, 285s., c.i.f.

HENBANE.—B.P. herb (niger) on spot, is quoted at 4s. 3d. per lb.

IPECACUANHA.—Spot quotations for Colombian material, testing slightly above average. are at 37s. 6d. per lb.; at origin, 31s., c.i.f. No business reported done from origin in Nicaraguan; prices asked by shippers are said to be high.

IRISH MOSS.—White carrageen is on offer at 85s, per cwt., spot. Jalap.—Mexican is scarce and firmer at origin. A parcel on the spot testing 9-11 per cent. resin is quoted at 4s. per lb.; 15 per cent. is offered at 4s. 6d., spot. Brazilian (12.7 per cent.), 2s. 9d. per lb. spot.

Karaya.—Selected is offered at 290s. per cwt., spot; No. 1, 255s.; No. 2, 215s.;

No. 3, 180s.

Kola nuts.—Steady. African quarters, 6d. per lb.; halves from  $2\frac{3}{4}$ d. to  $4\frac{1}{2}$ d. Jamaican washed halves,  $3\frac{1}{2}$ d. per lb.

LIQUORICE.—Anatolian natural root on the spot is from 55s. per cwt.; shipment. 50s., c.i.f. Syrian natural is short at from 40s. to 45s., spot. Turkish block is quoted at from 160s. to 230s., duty paid, according to holder; Turkish stick is from 280s., duty paid, Italian stick is from 285s. to 475s. per cwt., duty paid, as to grade.

LYCOPODIUM. — Russian triple-sifted on the spot is quoted at from 10s. 6d. to 14s. per lb., according to holder.

Mace. — West Indian blade is offered at 6s. per lb. on the spot; pickings are from 2s. to 5s., as to quality.

Menthol. — Brazil is quoted at from 82s. 6d. per lb., spot, duty paid, and 80s. per lb. in bond, but there are still some cheap sellers; December-January shipment, 86s., c.i.f., nominal. Chinese afloat, 87s. 6d. per lb., c.i.f.; on the spot, 90s., duty paid.

Myrrh.—Aden sorts, spot. offered at £12 per cwt., siftings are at £6 10s. to £7.

Nutmegs. — West Indian 80's quoted 2s. 9d., on spot; sound assorted, 2s. 1d., spot. East Indian 80's offered at 2s. 10d. per lb., c.i.f.

Nux vomica, — Cochin is offered from 36s. to 37s. 6d. per cwt., spot; 32s. to 33s.. c.i.f. Madras for shipment, 27s. per cwt.. c.i.f. Cocanada, 35s. per cwt., spot.

OLIBANUM.—Best drop is quoted at from 220s, to 225s., and medium drop at 190s.; peas are 200s., fair garblings, 125s.; siftings, 85s. per cwt., spot, buyers.

Orange Peel.—Old-crop thin cut Tripoli is quoted at 1s. per lb., duty paid, spot: new-crop is 1s. 1d. per lb., duty paid. Bitter quarters, 1s. 3d. per lb., duty paid, spot, nominal.

ORRIS.—Florentine root on the spot is offered at 110s. to 120s. per cwt.; Verona. for shipment, 60s., c.i.f.

PIMENTO.—Firmer. Spot is valued at 1s.  $4\frac{1}{2}$ d. per lb., in second hands.

Podophyllum,—Indian (emodi) is available at from 310s. per cwt., ex wharf, as to resin content; American (peltatum) spot, 280s, per cwt., nominal.

QUASSIA.—Steady, Chips on the spot are quoted at from 33s, to 35s. per cwt.

QUINCE SEED. — Cape on the spot is steady at 3s. 6d. per lb.

RHATANY. — Quiet. Spot quotations are unchanged at 9d. per lb.

RHUBARB.—Chinese rough round, sound and with a two-thirds pinky fracture, is coming forward at 9s. 6d. per lb., landed.

SARSAPARILLA,-Jamaican native red, on the spot, is offered at 2s. to 2s. 3d. per lb.; forward, 1s. 10d., c.i.f. Jamaican

grey, 3s. 6d., spot.

SEEDS .- Turkish Anise is now available at 155s. per cwt., in bond, and 165s. per cwt., duty paid in London. No Cyprus is offering on spot. Caraway.—Dutch during the past week has advanced to 122s. 6d. ing the past week has awarded per cwt., duty paid, spot London. Celery.—Market remains firm. Indian reported sold on spot at 1s. 5d. per lb., c.i.f., French is quoted at 2s. 1d. per lb., c.i.f., London, but no business reported. ANDER.—Morocco for shipment is dearer. 75s. per cwt., c.i.f., London. On spot, 77s, 6d. per cwt. in bond is now quoted, and for duty paid parcels, 85s. per cwt. is the price. Argentiae, whole seed, is 75s. per cwt. days and spot and spot argential in London. cwt., duty paid in London. CUMIN.wt., duty paid in London. Comars.—
Market remains unchanged. Cyprus is nominal at 190s, per cwt., spot London. Morocco is 157s. 6d. per cwt., in bond, and 167s. 6d. per cwt., duty paid, spot London Indian is 155s. per cwt., spot London or Liverpool. DILL.—Indian is quiet, but firm on spot at 62s. 6d. per cwt., and for schement 57s. 6d. per cwt., cif. London. shipment, 57s. 6d. per cwt., c.i.f., London, quoted. Fennel.—Indian is unchanged at 75s. per cwt., spot London. Fenugreek.— Market remains firm. Morocco on spot is 57s. 6d. per cwt., duty paid; Indian is 62s. 6d. per cwt., spot London only.

SENEGA. — Quiet. Spot quotations are from 10s. 3d. to 10s. 6d. per lb.

SENNA.—Tinnevelly leaves, spot, No. 1, from 9½d. to 11d. per lb.; No. 2, 7½d. to 8d.; No. 3, 6½d. per lb.; Tinnevelly pods, selected, nominal; ordinary hand-picked, 9d. to 1s.; manufacturing, 5½d. to 6d. Alexandrian pods, hand-picked, spot, from 4s. 9d. to 5s. 9d. per lb., nominal; medium grades are offered at from 2s. 6d. to 3s. per lb., manufacturing, 8d.

SHELLAC.—F.O.T.N., pure, is 335s. per cwt., spot; F.O. Standard 1, 350s.; fine orange, 365s. to 410s.

SQUILL.—Italian is quoted at 57s. per cwt., spot; for shipment, 45s. to 50s., c.i.f. STYRAX.—Crude is firmer at from 7s. 3d.

to 7s. 6d. per lb., spot, duty paid.

Tonka Beans.—Pará for shipment is quoted at 6s. 3d. to 6s. 6d. per lb., c.i.f.

TRAGACANTH. — Steady. Selected white ribbon is quoted at £115 per cwt.; other white grades on the spot are offered at from £65 to £100 per cwt.

TURMERIC.—Madras finger is offered at 120s. per cwt., spot; Rajapore finger, 120s., spot.

Valerian.—Belgian natural on spot is

offered at about 180s, per cwt.

WITCH-HAZEL LEAVES.—Supplies on the spot are offered at 3s. 9d. per lb., duty paid. In good request.

#### Essential and Expressed Oils

Anise.—Little available on the spot and prices up to 9s. 6d. per lb. are asked for original drums; in tins in cases, 9s. 9d., nominal. For shipment, 10s., c.i.f., nominal.

Bois de Rose.—Quotations are from 25s, to 27s. 6d. per lb.; forward, 22s. 6d., c.i.f. Cassia.—Firm. Nominally 17s. 9d. to 18s. per lb. on the spot; December-January

shipment, 17s., c.i.f.

CITRONELLA.—Firm. Ceylon on the spot is nominal at 8s. to 8s. 6d. per lb.; Decem-ber-January shipment, 7s. 9d., c.i.f. Java on the spot is nominal at 17s., spot.

EUCALYPTUS.—Firmer. 70-75 per cent. (B.P.) is at from 4s. 9d. to 5s. 6d. per lb., spot; 80-85 per cent., 5s. to 6s. per lb.,

spot.

Geranium.—Bourbon on the spot is at about 92s. per lb.; for shipment, 90s., c.i.f. nominal.

Lavandin.—Spot offers are from 8s. 3d. to 10s, per lb., according to grade.

OLIVE.—Importers' Association's rate is 26s, 2d, per gall, of 9 lb., ex store, drums included. Additional charges are added for small quantities, according to costs of breaking bulk, containers, delivery, etc.

Rose.—Bulgarian is reported offering at from 260s. to 300s. per oz., and Anatolian at 260s. per oz., both spot London. Other grades are available from about 190s. per oz. Market quiet.

Patchouli.—Singapore on the spot is quoted at 120s. per lb.; forward, 115s., c.i.f.

Palmarosa.—Spot quotations are from 40s, to 44s, per lb.; shipment, 40s., c.i.f.

PEPPERMINT.—English-distilled is offered at from 200s. to 225s. per lb. Chinese (dementholated M. arvensis) is quoted at from 41s. to 44s., c.i.f. Italian *piperita*, for shipment, 65s. per lb., c.i.f.; Continental piperita on the spot is from 65s, to 70s. per lb.

PINE NEEDLE.—First-grade on the spot is quoted at from 14s. to 16s. per lb.

Rosemary.—Spanish on spot is offered at 6s. 6d. to 8s. per lb., as to grade; Dalmatian, 5s. 6d.

Sandalwood. — Mysore oil on spot, from 70s. to 77s. 6d. per lb.; English distilled is about 75s, per lb. West Indian is quoted at 25s. per lb.

Sassafras.—Brazil on spot is quoted at from 5s. to 5s. 6d. per lb.

Spearmint.—Foreign, for January delivery, is quoted at from 35s. to 40s. per lb., duty paid, according to quantity.

THYME.—Steady. Red oil (40-42 per cent. phenols), 10s. 6d. to 12s. 6d. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE. — Quotations are from 6s. 6d. to 8s. per lb., according to quantity.

VALERIAN.—English-distilled oil is quoted at 75s. per oz.

#### TRADE MARKS

(From the "Trade Marks Journal," December 14, 1949)

For all goods (5).—"REPATOX"; by Imperial Chemical (Pharmaceuticals), Ltd., Slough; 676,809. "CODEMPRIN"; by the Wellcome Foundation, Ltd., London N.W.1; 677,067. "MARALYN"; by Bovril, Ltd., London, E.C.1; 677,900. "AVLOPLAS"; by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1; 680,456. "CYTAMEN"; by Glaxo Laboratories, Ltd., Greenford; 680,701. "BILTANY"; by Yab, Nogent-sur-Marne; 680,926. Shield device including mounted crusaders; by Durham Chemicals, Ltd., Birtley; 680,974. "ORASECRON"; by British Schering, Ltd., London, W.1; 683,680.

For photographic developing tanks (9).—" CUT-PLATE"; by Neville Brown & Co., Ltd., London, W.1: 681,567.

For non-medicated toilet paper (16).—" HART-RESSA" "Moose" and "TRESSA"; by Hartley Paper Bag Co., Ltd., Leeds; 680,642-45.

For combs, brushes and toilet utensils (21).— "HOLIDAY MEMORIES" in distinctive lettering; by James Arthur Marchant, Manchester; B680.413.

For cases for combs and nail-files (21).—"MANI-COMB"; by Jack Milligan, London, N.13; 681,166.

For non-medicated toilet paper, paper handkerchiefs and cleansing tissues (16).—"IRIS"; by Velvet Crepe Paper Co., Ltd., Alperton; B669,783. (From the "Trade Marks Journal,"

December 21, 1949)

For chemical agents used in the manufacture of toilet preparations, etc. (1)—"Petpro"; by Pettingill Products, Ltd., Mitcham; 671,385.

For industrial chemicals (1).— "FLORAB"; by Imperial Chemical Industries, Ltd., London, S.W.1; 678,496. "Hydramere" and "Hydramere"; by Brown & Forth, Ltd., Manchester; 681,743 and 681,746.

For industrial, scientific and photographic chemicals (1).—"G.T.G." in monogram form; by George T. Gurr, London, S.W.6; 681,843.

For soaps (other than toilet soap) (3).—"SEAU" and device of bucket; by Gerard Brothers, Ltd., Nottingham; 672,051.

For soaps and detergents (3).—"HYDRAPON"; by Brown & Forth, Ltd., Manchester; 679,006. "Vim" on label device; by Lever Brothers, Port Sunlight, Ltd., Port Sunlight; 679,178.

For lavender water (3).—" Frozo Lavender" in distinctive lettering; by R. Demuth, Ltd., London, N.W.6; B681,244.

For non-medicated toilet preparations (3).—
"KIDDIBLUE"; by William Edward Baldwin,
Welwyn Garden City; 682,364.

For all goods (5).—"LUCO-VITE"; by Lucozade, Ltd., Brentford; 676,524. "LEMINTEX"; by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.I; 680,450. "PROTEGAN" and "EGRESSIN"; by May & Baker, Ltd., Dagenham; 681,686 and 682,758.

For disinfectants and sterilising preparations (5).

"DELSANEX"; by Yare Industries, Ltd., Gorleston; 680,117.

For weed-killing preparations (5).—"GRAINOX" by Alexander Montieth, Chinnor; 680,521.

For medicated liquorice and menthol pellets (5).

"'VEVS''; by the Maxilin Marketing Co., Ltd.,
Bolton; 680,941.

For dietetic breads (5).—" LOSTARINS"; by Heudebert Foods Co., Ltd., Alperton; 680,732.

For medicated eye preparations (5).—"EYETREX"; by Optrex, Ltd., Greenford; 682,212.

#### **COMING EVENTS**

Monday, January 9

Merseyside Branch, National Association of Women Harmacists, Red Cross Rooms, Hackin's Hey, Liverpool, at 7 p.m.: Annual meeting.

Tuesday, January 10

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Laboratories of Parke, Davis & Co., Staines Road, Hounslow, Middlesex, at 8 p.m. Solind film presented by Dr. J. Stanley White: "Sex Hormones: Physiology, Diagnosis and ment."

Preston Pharmacists' Association, Out-patients' assembly hall, Preston Royal Infirmary, Stanleyfield Road, Preston, at 7.15 p.m. Visit to pharmacy and physiotherapy departments.

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Lecture theatre, Medico-Chirurgical Society, 64 St. James' Street, Nottingham, at 7.30 p.m. Dr. P. H. O'Donovan on "Accurate Diagnosis of Heart Disease" (illustrated).

Walthamstow Branch, National Pharmaceutical Union, and Walthamstow Pharmaceutical Association, Comway Hall (opposite public library), High Street, Walthamstow, London, E.17, at 8 p.m. Films, "One Man's Story," and "Your Child and You."

#### Thursday, January 12

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Mr. J. M. Rowson, Ph.D., M.Sc., Ph.C. (Curator of the Society's Museum), on "Genetics, Cultivation and Pharmacognosy."

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIA-TION, Bridge Inn, Port Sunlight. Dinner.

Bristol Branch, Pharmaceutical Society, Board room, Guildhall, Small Street, Bristol, at 7-15 p.m. Lecture, "The Modern Development of Photography from a Commercial Point of View."

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Fuller's Café, Harrogate, at 7.30 p.m. Address by Mr. Hugh N. Linstead, O.B.E., Ph.C., M.P. (secretary, Pharmaceutical Society). Apprentices and assistants are invited.

Leeds Branch, Pharmaceutical Society, Metropole Hotel, Leeds, at 7.30 p.m. Mr. D. W. Hudson (a member of the Society's Council) on "Comprehensive Pharmacy."

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, The Unicorn, Gidea Park, at 7.30 p.m. Mr. W. J. Tristam, M.P.S., on "Pharmaceutical Politics."

THE SIR JOHN CASS COLLEGE (Department of Chemistry), Jewry Street, Aldgate, London, E.C.3, has arranged a course of twelve lectures on spectrochemical analysis on Friday evenings (6 to 7 p.m.) beginning January 13 (fee 20s.). A course of ten lectures on microchemical analysis is also to be held;



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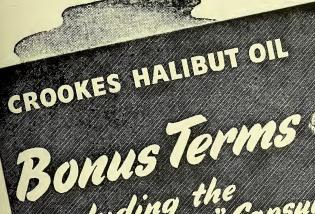
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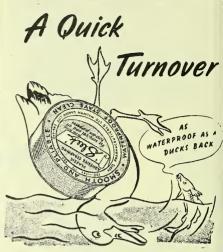
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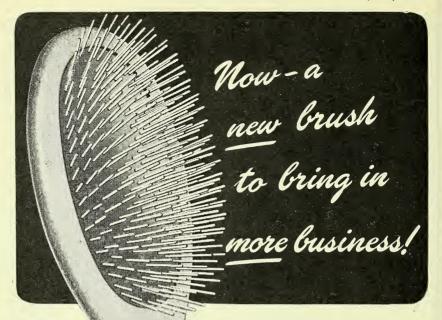
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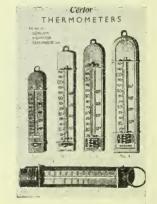
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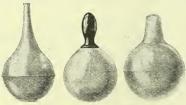
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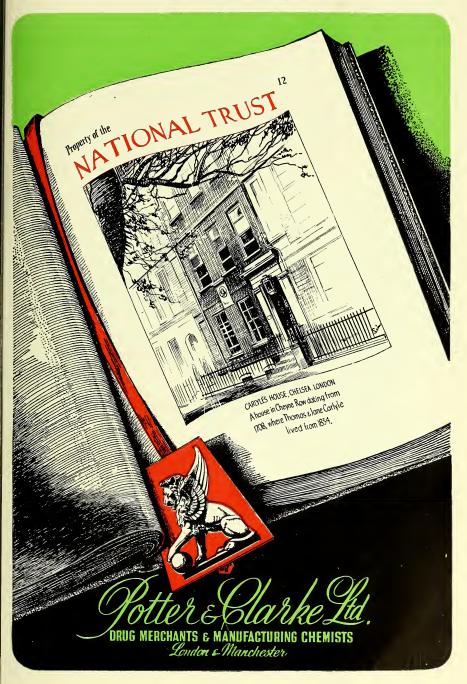
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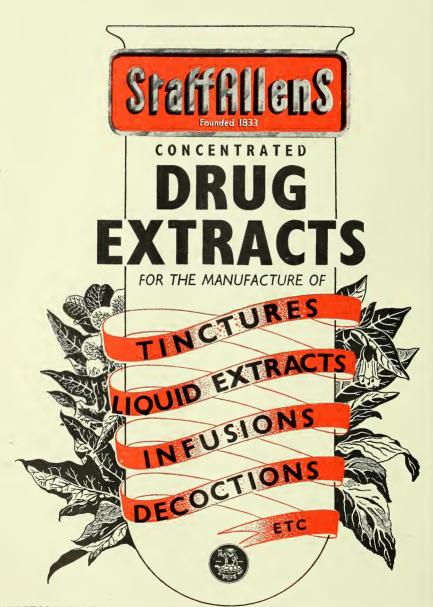
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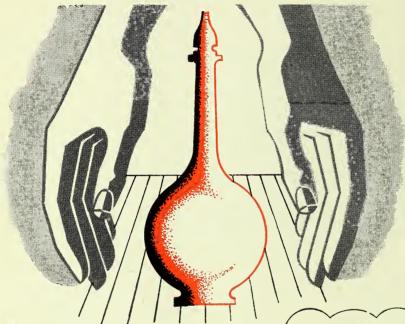
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Less 5% Cash in 14 days

 Vitamin B.1
 2.10 mgms. per es.

 Riboflavin (B.1)
 1.45 mgms. per es.

 Niacin
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THE ENGLISH GRAINS CO.LTD.BURTON-ON-TRENT

### Benger's Food



the light diet of choice during illness and convalescence



a health-promoting nightcap



indicated for infant feeding at all stages

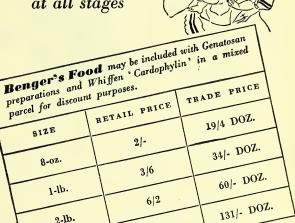
SIZE

8-oz.

1-lb.

2-lb.

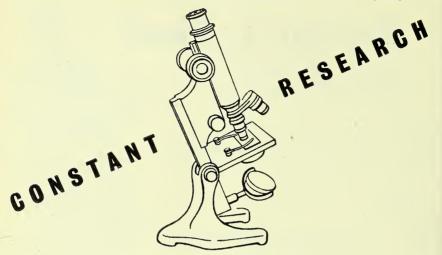
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OUTPUT 2000 COMPACTS PER DAY MANESTY CP2 COATING PAN

STANDARD SIZE 30" DIAM.





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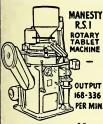
1000-1500 PER MIN.

FOR TABLETS UP TO 2 DIAM



MANESTY Nº2A TABLET MACHINE OUTPUT 55-220 PER MIN.

FOR TABLETS UP TO 12 DIAM.



FOR TABLETS UP TO TO DIAM.

Output 5100 per hour.



MANESTY MIXER

Overload Release and/or Variable Speed Drive optional.

CAPACITY 100 LBS. OF POWDER



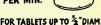
Max.

diam.

3"

MANESTY **B3** ROTARY TABLET MACHINE

OUTPUT 400-500 PER MIN.





PER MIN. FOR TABLETS UP TO "DIAM.

MANESTY Nº3 **TABLET** 

MACHINE

OUTPUT 30-400 PER MIN.

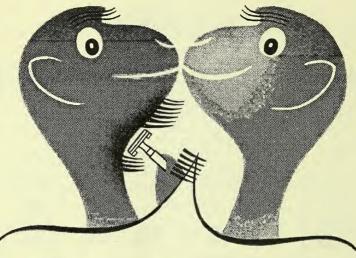
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Good mornings begin with Gillette

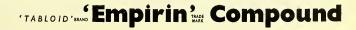
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### Organon Jaboratories Ital

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(ETHINYL OES	TRA	A D I	0	L)			NEW RETAIL	PRICES
Tablets							0.01 mg.	0.05 mg.
Tubes of	25	•		•		•	2/6	3/9
Bottles of	100						8/9	13/3
	500						38/6	60/-
	1000				•		75/-	117/~

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(ETHINYL OESTRADIOL)

TABLETS I mg.

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Bottles	of	100								118/6



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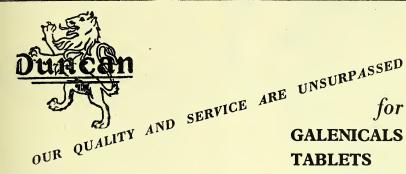
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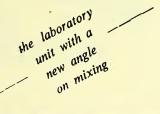
VACCINES

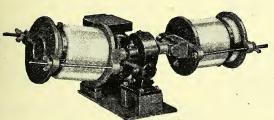
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We are now producing new and beautiful designs in attractive pastel colours which we have proved will stimulate sales.

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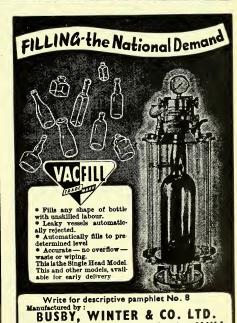
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Price



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	PER CARTON (100 Blades) 18/3	PER PACKET of { 10 - 3/4 5 - 1/8	
Thin Gillette Blades	PER CARTON (144 Blades) <b>19/9</b>	PER PACKET of { 12 - 3/- 6 - 1/6	
7 o'clock Blades	PER CARTON (100 Blades) <b>9/-</b>	PER PACKET of { 10 - 1/8 5 - 10d.	

Trade enquiries to your usual w'.o'esaler.

GILLETTE INDUSTRIES LIMITED, GREAT WEST ROAD, ISLEWORTH, MIDDLESEX

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Also Bakelite and Metal Screw Caps
SUBSTANTIALLY REDUCED PRICES

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- ACCURATE
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- COMPACT

The "PEARSON"
Liquid Filling
Machine can be
operated by unskilled labour. It
is easily adjusted
for different sizes
of bottles, etc.,
almost any of
which can be
rapidly filled
with fluid without
spill or drip.

The machine can be quickly cleaned and sterilized.

S.W. PEARSON LTD.
PECKLETON COMMON · NR. EARL SHILTON · LEICESTER
TEL·DESFORD 381/2 GRAMS · RENCOL

#### The 'Clinbritic' Vaccine Bottle

MADE IN ALKALI FREE AMBER or WHITE GLASS



Assembly Details.

A Multiple injection "vaccine" bottle which possesses several points of interest and offers a very near approach to the ideal.

No Wiring is necessary, and there is no distortion or bursting of the rubber cap even at pressures up to

The india rubber vaccine cap, of special design, is protected by a screw bakelite cap, and provision is made for maintaining the sterility of the outside surface of the vaccine cap. No manipulation whatever is required after sterilization.

Samples, Prices and Full details on Request



Completed

Britton, Malcolm & Company, Ltd.

38 Southwark Bridge Road, London, S.E.1

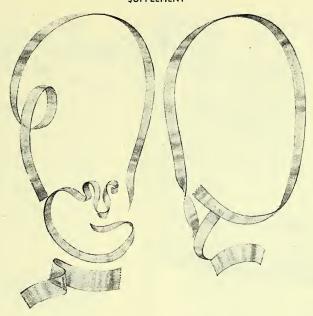


MORRISONS & RALPH LTD . BARRHEAD . SCOTLAND





HAROLD WESLEY LTD. HARLEY MILLS, LONDON, N.W. 10

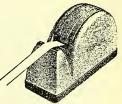


## Sellotape Guards . . .

Bottle labels protected with Sellotape, stay clean and legible. It's quick, neat and so easy to use—just a touch and it sticks! What could be simpler? Use Sellotape for your "over the counter packages". It's quicker than string and just as strong—looks so much better, too!

Sellotape is available in handy dispensers for resale to the public. Backed by National Advertising and striking display material, they really SELL! So make sure your stocks are adequate.

WRITE OR PHONE FOR FULL DETAILS, NOW!



### SELLOTAPE

SELF-ADHESIVE CELLULOSE TAPE



86 Clerkenwell Rd. London, E.C.I and 6 Crow St. Dublin MADE BY VERNON & CO., PRESTON, LANCS

#### 6,000,000 A MONTH

EVERY month upwards of six million mothers and mothers-to-be are getting to know more and more about the advantages of Nappi-wite. A scientifically planned advertising campaign through the medium of the women's and provincial press is telling them why Nappi-wite has become so popular. This nation-wide coverage with its specialised readership brings home to women the importance of Nappi-wite to the welfare of his majesty the baby.

Everywhere the demand for Nappi-wite is growing—ensure that you have sufficient stocks to meet it. Your usual Wholesaler can supply you by return.

### **NAPPI·WITE**

The Non-Bleach Nappy Wash

NAPPI - WITE LTD., 17 Conduit Street, W.I

#### SURGICAL DRESSINGS

Send your enquiries to:

#### CROSSKILLS OF NORWICH

The main distributors for the Eastern Area

LARGE STOCKS



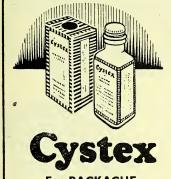
PROMPT SERVICE



In Stainless Steel-Nickel Plated and Chromium over Nickel

Our order books are full for some time ahead, and immediate deliveries cannot be promised. We shall, however, welcome your enquiries for forward deliveries. (WHOLESALE ONLY SUPPLIED)

# Two Products you cannot forget



For BACKACHE, RHEUMATISM



mendaco

For ASTHMA, BRONCHITIS, HAY FEVER

Because

#### EXTENSIVE

ADVERTISING

Cystex and Mendaco are still widely and consistently advertised in National Newspapers, the Provincial Press and a wide range of periodicals and magazines. These advertisements will send new customers to you, who, in turn, will doubtless recommend Cystex and Mendaco to their friends.

#### Because

Look to your stocks of Cystex and Mendaco and re-order in time so as not to disappoint any customer. A mple supplies now available—all orders executed promptly in full

Millions of people have, in the past, seen advertisements or these products — many have bought either Cystex or Mendaco—found them to live up to all the claims made for them—and now recommend them to other sufferers. This trade will continue, and expand.

#### DISPLAY THESE PRODUCTS

on counter or in window, and let your customers know that you have these quality products ready at hand.

Other Knox quality products include: Diotex, Hytex, Nixoderm, Koladyne.

KNOX LABORATORIES LTD., 29, Duke Street, St. James's, London, S.W.I

A DUFAY PRODUCT

# "Winter Photography means ALL YEAR ROUND Sales

NEW D20 CORONET BOX CAMERA

now available for the home market in limited quantities.

BOX CAMERA 43/4 Tax paid

FLASH UNIT 36/10 Tax paid

DUFAY-CHROMEX LTD., 14/16 COCKSPUR ST., LONDON, S.W.I

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**EXTEND YOUR TRADE USE A TRADE MARK** CONSULT TRADE MARK PROTECTION SOCIETY TRADE MARK CONSULTANTS
12 CHURCH STREET LIVE LIVERPOOL Tele.: Royal 3172-3173

#### MOSANS PESSARIES

15/- per doz. boxes any wholesaler



(also Pakistan & Ceylon) retail & wholesale drug trade; importers and forgn. mfrs'. agents; Indian mfrs. are blanket covered by country's best drug trade journal: CHEMIST and DRUG STORE NEWS.

Copy, details free. 31 Hamam St., Bombay, I

London Office: D. S. Cooper, 2-3 Norfolk St., Strand, London, W.C.2. Temple Bar 4687



Those thousands who regard KORAY as their "First Aid" in case of pain are making this plastic container their constant companion. It holds 5 tablets and fits into a waistcoat pocket or the smallest handbag.



There is a container in every one of the neat, "Cellophane"-wrapped packs of KORAY 28's and 64's. These larger sized packs of KORAY tablets give you a good profit margin and are excellent counter-lines. They are backed by powerful national advertising and create that goodwill which is only associated with a tried and proved product of quality.

The 10 tablet pack, recently re-designed, will act as an introduction to those who are not yet fully aware of the thoroughly dependable analgesic qualities of KORAY.

Send your order now to:

KORAY LTD., GOLDEN MILE WORKS. BRIDGEND, GLAM.

AMAY PAIL TABLETS FOR HEADACHE INFLUENZA RHEUMATISM MALARIA E NEURALGIA ALL NERVE PAINS CANNOT HARM THE HEART

T2

WILES dogfood

and it sells on sight

This quality dog food contains concentrated meat, liver and fish. It is packed in handy airtight tins, attractively labelled in red and black, and specially designed for easy stacking and display.

Bright attractive showcards and window bills are now available.

Order your supplies of Wiles Vitamin dog food through your usual Wholesaler.

Sole Selling Agents:

COUPER, FRIEND & CO. 33-35 Eastcheap, London, E.C.3

Made exclusively by WILES of WOODMANSEY E. YORKS.

The finest dog food in the world

TYNE TRUCK & TROLLEY CO. LTD 66/68 Northumberland Street, Newcastle-Upon-Tyne I

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**PATENTS** 

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DANGEROUS DRUGS

**DRUGS & GALENICALS** 

ETHICAL PROPRIETARIES

SMITH & HILL

(Chemists) Ltd.

SIDNEY ST., SHEFFIELD, I

Phone: 24321

### BE READY

FOR THIS SEASON'S

INCREASED EGG

PRODUCTION

With extra poultry foods available, more of your customers will be preserving eggs this season. This means more requests for Goodall's Waterglass. Be sure your stocks are sufficient to meet the increased demand. Goodall's Waterglass gives a clear, clean fluid. Packed in attractive leakproof tins and containers of various sizes.

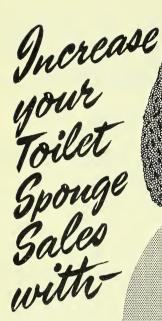
Write for details and prices.

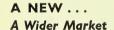
# Goodalls' WATERGLASS

EGG PRESERVATIVE

GOODALL, BACKHOUSE & CO., LTD. SOVEREIGN STREET, LEEDS

(29T\*)





You can do much bigger business in toilet sponges when you offer

Spontex. These high quality sponges, in attractive colours at attractive prices, are being bought by people who have not been customers before. They offer you completely new sales opportunities. Order Spontex Sponges in assorted colours to take advantage of their unique display possibilities. Enquire through your usual supplier or in case of difficulty write to the address below. (Showcard on request).

SPONGES

CONTAIN NO RUBBER

OVAL TOILET SPONGE (No. 33) In four delightful colours: natural yellow, blue, green and pink. Retailing at 2/9d. including purchase tax.

SPONTEX BATH SPONGE (No. 44) in the same colours. Retail price 3/8d. including P.T.

SPONTEX BABY SPONGE

Extra fine, extra soft. In natural yellow, blue and pink. Beautifully wrapped. Retail price 2/5½d. including P.T.

SPONTEX COSMETIC SPONGE Retail price 7½d. including P.T.

Made In Great Britain by :-

SPONCEL LTD., WOLDHAM ROAD, BROMLEY, KENT. Tel: RAVensbourne 2641





#### A soothing Vapour Rub for Children's Head & Chest Colds, Coughs, Sore Throats

Thermogene Rub for Children is an exceptionally bland, stainless, double-action vapourising Rub specially prepared for use in the treatment of children's colds and coughs. Gently rubbed into chest, back and neck, it imparts soothing, comforting warmth; and the pleasant medicated vapour it gives off relieves the tickly throat, chestiness and stuffy nose that are usually the first signs of a child's cough.

In jars, price 1/6 of all Chemists

advertised in an extended list of Media

Advertisements are appearing in National and Provincial Newspapers with circulations running into many millions!

Thermogene Rub for Children is also mentioned in all advertisements of Thermogene Medicated Wadding.

is now being

The NEW

Sole Distributors I. C. ENO LTD, Watford, Herts.



FOR EVERY

MONTH

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THE YEAR

# "ZEMS" HERBAL LICORICE TABLETS



THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

Supplies may be obtained

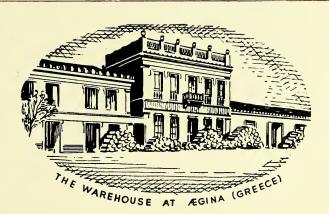


from C.F. Wholesale Houses

ZEMS LTD

718-724 Seven Sisters Road, London, N.15

Telephone I STAMFORD HILL 6659-9



"RELIANCE"

#### AND CHAMOIS

The illustration above is of one of the large warehouses on the Greek island of Aegina, where sponges from all the big fishing centres throughout the Mediterranean are collected, prepared and packed for distribution to the markets of the world. In over 100 years of steady progress we have maintained our reputation as the "right house" for Sponges and Chamois Leathers ("Reliance" Brand). Your enquiries will receive our courteous, prompt and knowledgeable attention.

Send for illustrated leaflet showing our full range of attractive sales-producing sponge-boxes.

#### **CRESSWELL** SPONGES

(INTERNATIONAL SPONGE IMPORTERS LTD.)

INTERNATIONAL HOUSE

STREET. CAMDEN TOWN. BUCK

'PHONE: GULLIVER 5462-3.

'GRAMS: SPONGE, NORWEST, LONDON

When advice on

# Contraception

is necessary or desirable!

# It is always wise to prescribe \*RENDELLS PRODUCTS

Based on clinical and biological experience, and conforming to the same standard of spermicidal efficacy as required by the Family Planning Association, Rendells Products can always be recommended with full confidence. The complete range of chemical contraceptives now available gives a wide scope in selecting the best method suited to individual requirements.

RENDELLS PESSARIES
RENDELL GELS
RENDELL - CREAM
RENDELL - FOAM

Our latest chemists' advertising material is available upon request.

#### W. J. RENDELL LIMITED

Manufacturing Chemists

161/165 ROSEBERY AVENUE, LONDON, E.C.I

Also at: SYDNEY (AUS.). WELLINGTON (N.Z.), RIO DE JANEIRO, PARIS

#### News from DALMAS of Leicester

# New waterproof protection

#### A NEW-TYPE ADHESIVE STRAPPING

Waterproof . . . has 101 First-Aid uses

DALMAS STRAPPING, a new waterproof plastic adhesive with 101 first-aid and other uses,



These spools are handy

is now in widespread demandeverywhere. Because of this, supplies have been greatly increased.

Dalmas Strapping can be cut to any size, gives 100% protection against water, dirt, grease and That's why it's specially suitable for

tiny cuts, sore places, torn finger nails, etc. In particular, it is ideal wherever the fixing of a bandage would be awkward. Dalmas Strapping stretches all ways, so edges stick tight while allowing free movement of joints and muscles. Attractive counter sell-outs contain twelve 1/- spools, each 1 inch by 1 yard, price 8/-, or 24 spools, price 16/-. Also in 3-yard lengths, and in 2 inch and 3 inch widths.

DALMAS HEEL DRESSINGS. A new waterproof dressing that is specially designed for sore and blistered heels. Handy boxes, price 1/- retail.

DALMAS FINGER-TIP DRESSINGS. A new waterproof adhesive protection for cracked, cut or sore finger-tips. Handy boxes, 8/- per dozen, to retail at 1/- each.

DALMAS BOIL PLASTERS. waterproof protective dressing for boils. Skin-coloured, hardly shows. Handy boxes, price 10d. retail, including tax.

### for cuts

#### Heavy demand for Dalmas First-Aid Dressings

O meet the nation-wide demand, we have further increased supplies of Dalmas. the waterproof plastic dressing that offers a totally new method of protecting cuts and minor wounds.

Dalmas gives 100% protection against water, dirt, grease and acid. So you need only cover the affected place and ... no further trouble! You can actually wash with it on.

Dalmas stretches all ways (not just one way). That's why edges stick tight, cannot fray, cannot catch in clothes. What'smore, Dalmas lessens infection risk, promotes safe and Display this box on your easy healing.



counter

Dalmas is skin-coloured, hardly shows. In attractive blue-and-white counter sellouts, containing three dozen 1/- boxes, price 8/- per dozen. Special quantity discounts. PLACE YOUR ORDER NOW!

#### A. de St. Dalmas & Co. Ltd.

LEICESTER (Phone: Leicester 65261)

London Depot: 140-142 St. John St., E.C.1 (Clerkenwell 3399)

> Leeds Depot: 14 Neville Street (Leeds 29764)

> > Scottish Agents:

Robert Telford, 29 Waterloo St., Glasgow, C.2 (Central 2716)

STORAGE MADE

SIMPLE

"SECO"

STEEL STORAGE EQUIPMENT

FOR FACTORIES AND STORES

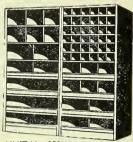
SECO Steel Equipment is suitable for all storage requirements, giving maximum storage capacity in the minimum floor space. A SECO Standard Unit is available to suit your every storage need. All units can be easily assembled with a screwdriver and spanner by unskilled labour on site, We also undertake the production and installation of storage equipment to customers' own specifications. The illustrations show a few standard units from the SECO Range. Send for List C.D.

The STEEL EQUIPMENT CO., LTD

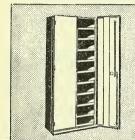
Greets Green, West Bromwich, Staffs.

Phone: TIPTON 1137-8-9

Grams: Equipit, West Bromwich

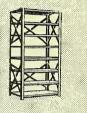


UNIT No. 950/I









L.G.B.

For over 60 years the trade have relied on the

PILLS
CAPSULES
& TABLETS

OF

#### HOWARD LLOYD

Many young chemists (as their fathers did 30 years ago) are placing all their orders with HOWARD LLOYD. They know that Howard Lloyd give constant satisfaction—in special order or regular bulk supplies.

HOWARD LLOYD & CO., LTD.
LEICESTER

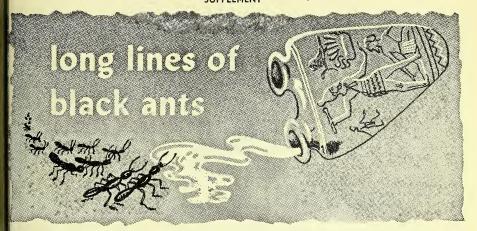


Brings many customers to the pharmacist for the renowned

#### RODINE

The Quick Rat Poison P.A.T.A.

T. HARLEY LTD., PERTH, SCOTLAND



Long lines of black ants attracted to madhumeha, 'honey urine,' led the ancient wise men of the East to observe and recognise diabetic urine, which they described as 'astringent, sweet, white and sharp.' Sugar-hungry insects became an acknowledged means of diagnosis. Almost equally primitive methods of urine-sugar detection prevailed for a score or more of centuries, until modern copper

reduction tests were perfected and simplified. Simplest of all today is the reliable Ames tablet method, performed in a matter of seconds. Urine-sugar levels are determined by direct, easily-learned steps. The use of 'Clinitest' (brand) reagent tablets has eliminated the inconvenience of external heating. Interpretation of routine urine-sugar testing follows readily from colour scale comparison.



APPROVED BY THE
MEDICAL ADVISORY
COMMITTEE OF THE
DIABETIC ASSOCIATION

Centuries to perfect—seconds to perform

## CLINITEST

REAGENT TABLETS
FOR URINE-SUGAR ANALYSIS



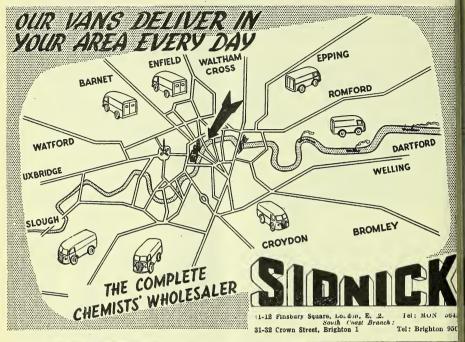
Leaflets for distribution to purchasers of diabetic products will be sent free with all orders. For complete information write to the Sole Distributors:

DON S. MOMAND LTD

57-ALBANY STREET, LONDON, N.W.I



PRODUCT OF THE AMES COMPANY INC., OF ELKHART, IND. U.S.A.





ΓOPPERS,

CAMPERDOWN STREET

LONDON, E.I

Telephone

Royal 4922/3



human beings or farmyard stock, when used as directed, but death to rats and mice. Clean, safe and easy to handle. From Chemists, Ironmongers and Stores everywhere, Price 1/6 & 5/9

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BRITISH RODENT EXTERMINATOR CO. LTI PRATTS BOTTOM . KEN **FARNBOROUGH** 

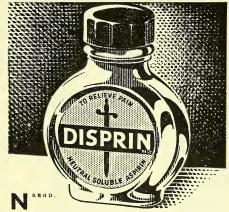
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### The problem was

to neutralise aspirin and to make it soluble. The problem has now been solved.

Aspirin is acidic, sparingly soluble, and for many subjects a gastric irritant. By contrast, its calcium salt is neutral, soluble and bland. Unfortunately, however, calcium aspirin as ordinarily presented is unstable, and thus, sooner or later becomes contaminated with the breakdown products, acetic and salicylic acids. In 'Disprin' the problem of providing pure calcium aspirin in stable and palatable form has been solved. Extensive clinical trials show that patients

can take Disprin in large dosage and over prolonged periods without suffering the disturbances, gastric and systemic, that so commonly attend intensive aspirin therapy.



Neutral, stable, soluble, palatable calcium aspirin

On prescription Disprin is free of Purchase Tax Clinical sample and literature supplied on application.

RECKITT & COLMAN LTD., HULL AND LONDON. (PHARMACEUTICAL DEPT., HULL)



#### LANETTE WAX SX

(Regd. Trade Mark since 1930) of Deutsche Hydrierwerke A.G.)

#### MANUFACTURED IN ENGLAND

The original product was always imported from Deutsche Hydrierwerke prior to the war.

**Special Reduced Quotations** 

Ask for booklet, samples, etc.

#### CYCLO CHEMICALS LTD

MANFIELD HOUSE, STRAND, LONDON, W.C.2

REPRESENTATIVES IN THE UNITED KINGDOM OF DEUTSCHE HYDRIERWERKE A.G., DUESSELDORF



ONCE MORE
WE CAN OFFER . . .

# SPHAGNOL SHAVING STICKS

7/9 doz.

Tax 2/7

Retail Price 1/3 Inc. Tax

Supplied at 13 to dozen on orders of 2 dozen or more

AVAILABLE FROM ALL WHOLESALERS OR DIRECT FROM:—

Sole Manufacturers

PEAT PRODUCTS (SPHAGNOL) LTD.
3, CARMALT GARDENS, LONDON, S.W.15

# Kiddies love it! Mothers praise it!

.. and it's a fine selling line!

A sound therapeutic preparation too, which you can confidently recommend for kiddies' coughs and colds, well knowing that it's delicious flavour (FERUTE contains real blackcurrant and raspberry juice) will earn you favour

with the children and grateful thanks from worried mothers. FERUTE is a real "good-will" builder. Never sticks on the shelves. Repeats and repeats and repeats. Truly a happy "till tinkler"!

# FERUTE COUGH SYRUP

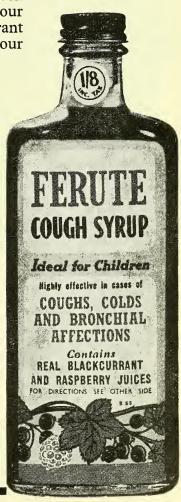
Contains real Blackcurrant and Raspberry Juices

Order a dozen or so today! 2 sizes: retailing at 1/8 inc. tax and 2/6 double quantity. Can be mixed with your order for Zac Baby Products and other "Hough Hoseason" Packed Pharmaceutical Preparations, to qualify for best available quantity terms.



Made by the makers of ZAC Baby Products

HOUGH HOSEASON & CO. LTD. Levenshulme, Manchester 19



### NEW LINES!

#### ASTHMA INHALER PUMP

Retail Prices: Less 40%

PUMP ALONE

36/6 PUMP & INHALER 64/-

#### DOUBLE SIZE

Retail 17/-

RIDDOBRON **ASTHMA INHALANT** 

TABLETS RIDDOBRON

20's @ 5/-100's @ 22/6

TAX FREE --- ALL

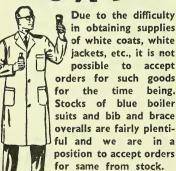
RIDDELL

PRODUCTS LIMITED

LONDON **AXTELL HOUSE** WARWICK STREET .

Telephone: GERrard 3574

# FOR



diner & CO. (The Scotch House) Ltd. I, 3 and 5 COMMERCIAL ROAD, LONDON, E.I Branches: Deptford, S.E.8; Woolwigh, S.E.18; Clapham, S.W.11.

# Rodelleg

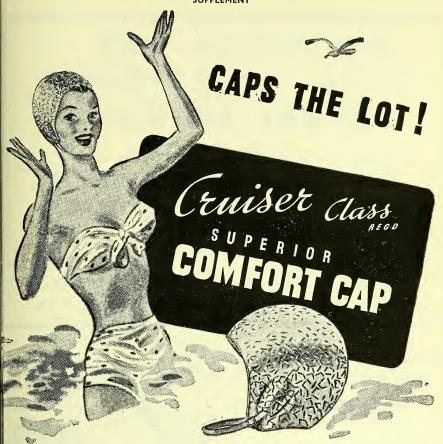
WILL REMIND YOU OF

### fast Telegraph

The Newspaper with the largest circulation in Northern Ireland. Read in the homes of the people throughout the whole of this important industrial and agricultural part of the

UNITED KINGDOM

ISAD OFFICE BOYAL AVENUE LONDON OFFICE: 112 FLEET STREET, LONDON, E.C.4



The popularity of the "Cruiser Class" Superior Comfort Cap is due to its silky, long-stretch natural ubber material and the fact that it can be worn with or without straps.

Available in 2 sizes in Snow White, Red, Royal, Green, Pink, Pastel Blue and Pastel Green.

#### WHOLESALE DISTRIBUTION ONLY

Over 10 million bathing caps have been manuactured and sold by us all over the world.

Sample and literature on application to:—

#### LONG & HAMBLY Itd

Moulded Rubber Manufacturers

NATIONAL PRESS
advertising campaign
is being run
in the leading
Women's magazines



Showcard, attractive folder and colour chart available.



WPIRE WORKS • HIGH WYGOMBE • BUCKS

#### MERCOLIZED WAX

for the complexion

#### CLYNOL BERRIES

for obesity

SUPPLIES NOW AVAILABLE IN ANY QUANTITY

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Lavender House, Seymour Road, Leyton, E.10

DEARBORN (1923) LTD.

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#### PATTINSON'S MAGNESIA

GUARANTEED B.P. QUALITY

Mag. Carb. Levis. Mag. Carb. Pond. Mag. Oxide Levis Mag. Oxide Pond. Mag. Trisilicate.

Mag. Hydrate. Mist. Mag. Hydrox.

Supplied through all wholesalers by the sole manufacturers:

#### The WASHINGTON CHEMICAL

CO. LTD.

A MEMBER OF THE TURNER & NEWALL ORGANISATION

WASHINGTON co. durham

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#### MADE AMPOULE FILES

are now available

We are now in a position to manufacture large quantities of Ampoule Files and invite inquiries

#### DOMINION STEEL CORPORATION

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"FLEET" WORKS
QUEEN'S ROAD, SHEFFIELD, 2

#### PHARMACEUTICAL EMULSIONS & EMULSIFIERS

by L. M. Spalton, B. Pharm., M.P.S.

Today, the pharmacist is faced with an almost bewildering assortment of emulsifying agents, all having varying properties and requiring different methods of treatment.

In this book the considerable range of these products has been classified, together with essential practical points about their pharmaceutical use. It contains chapters devoted to the theory of the formation of emulsions, properties of different emulsifying agents (classified into groups according to their structure and characteristics), the formulation and preparation of emulsions, the general methods of preparing emulsions with details of technique and causes of emulsion separation, preservation and storage of emulsions etc.

The practical uses of emulsifiers is dealt with at considerable length, together with methods of handling each type of emulsifying agent and full notes of incompatibilities and other matters.

The book also contains a classified index of over 300 emulsion agents used in the Drug, Toilet and Cosmetic trades and other industries, with references to their composition, type and uses, together with an index of manufacturers.

Useful and up-to-date — this book provides essential information in concise form.

EVERY PHARMACIST SHOULD POSSESS A COPY

5/6 post free

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Chemists!

Ask to see them. Your customers every hairnet need is met in Raywarp Quality Hairnet Wear which is backe by nation-wide advertising. Raywarp's attractive, hygienic packs an forceful displays are ideal for quiceasy sales for the busy chemis

Wholesalers!

Your travellers will approve thes lighter-weight sample folders. Sen for your copies now. Separate folder for Hairnets, Slumber Nets o Boudoir Caps. Raywarp offer yo profitable terms and good service

Raywarp QUALITY HAIRNET WEAR

RAYWARP TEXTILES LTI ALFRED STREET NORTH NOTTINGHAM



GEO. JACKSON & SONS LTD., Harpurhey, Manchester 9

# Diuromil

A medically-prescribed product for the

#### RHEUMATISM — GOUT — ARTHRITIS FIBROSITIS — CYSTITIS — PYELITIS

Diuromil is an ethical product regularly prescribed by doctors all over the country. It is an effervescent granular preparation of palatable taste, the formula including Piperazine and Lithium, which, acting together, are twice as effective as

formula including Piperazine and Lithium, which, acting together, are twice as effective as solvents of Uric Acid as Piperazine alone. Diuromil mobilises, eliminates and prevents precipitation of Uric Acid.

Regularly advertised in the medical and nursing press, but may be recommended and sold without medical prescription.

Write for sales terms, samples and literature.

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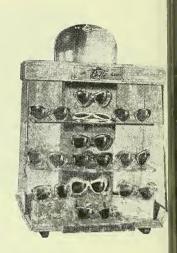
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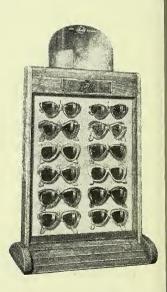
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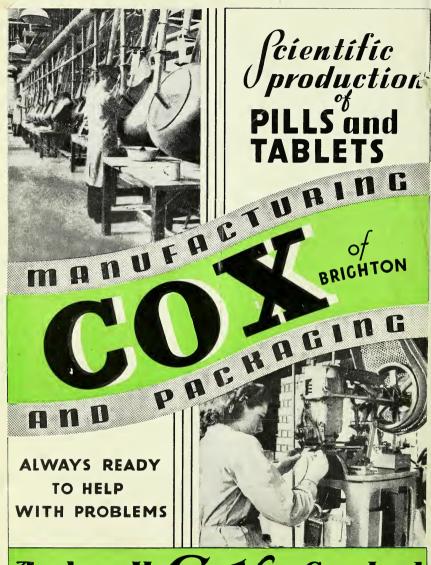
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